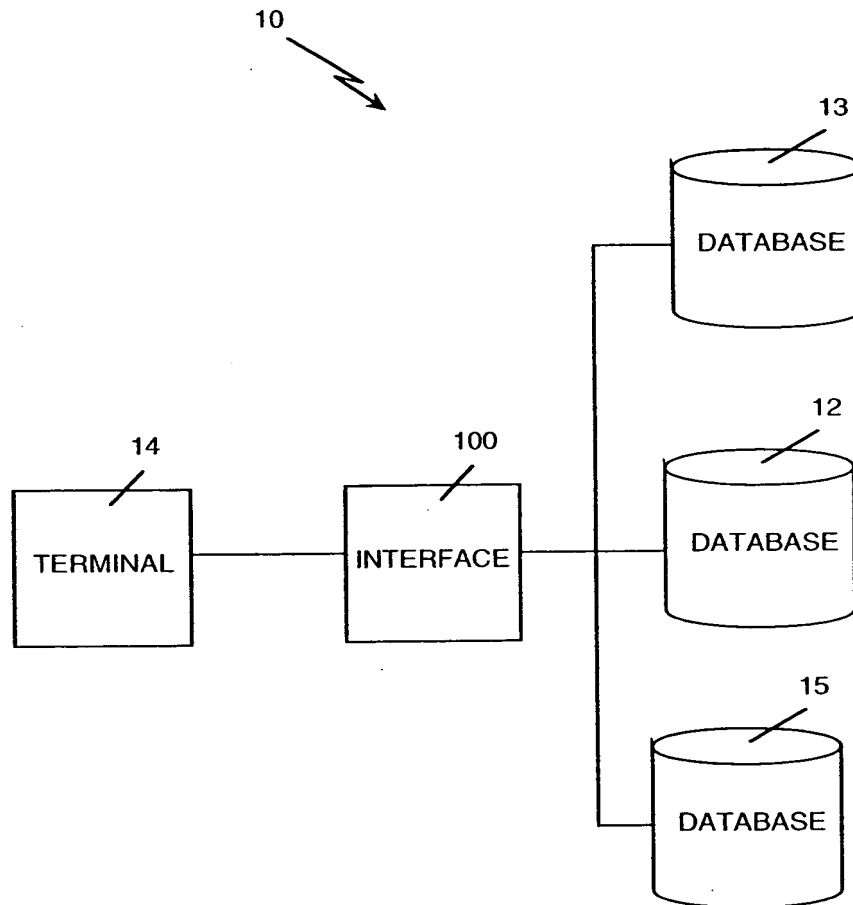


**Title:** SEARCH-ON-THE-FLY WITH MERGE FUNCTION

**Inventor(s):** Joseph L. DeBelli

**Contact Name:** Aldo Noto (703) 288-5149

**Attorney Docket No.:** 5607



*FIG. 1*

FIG. 2

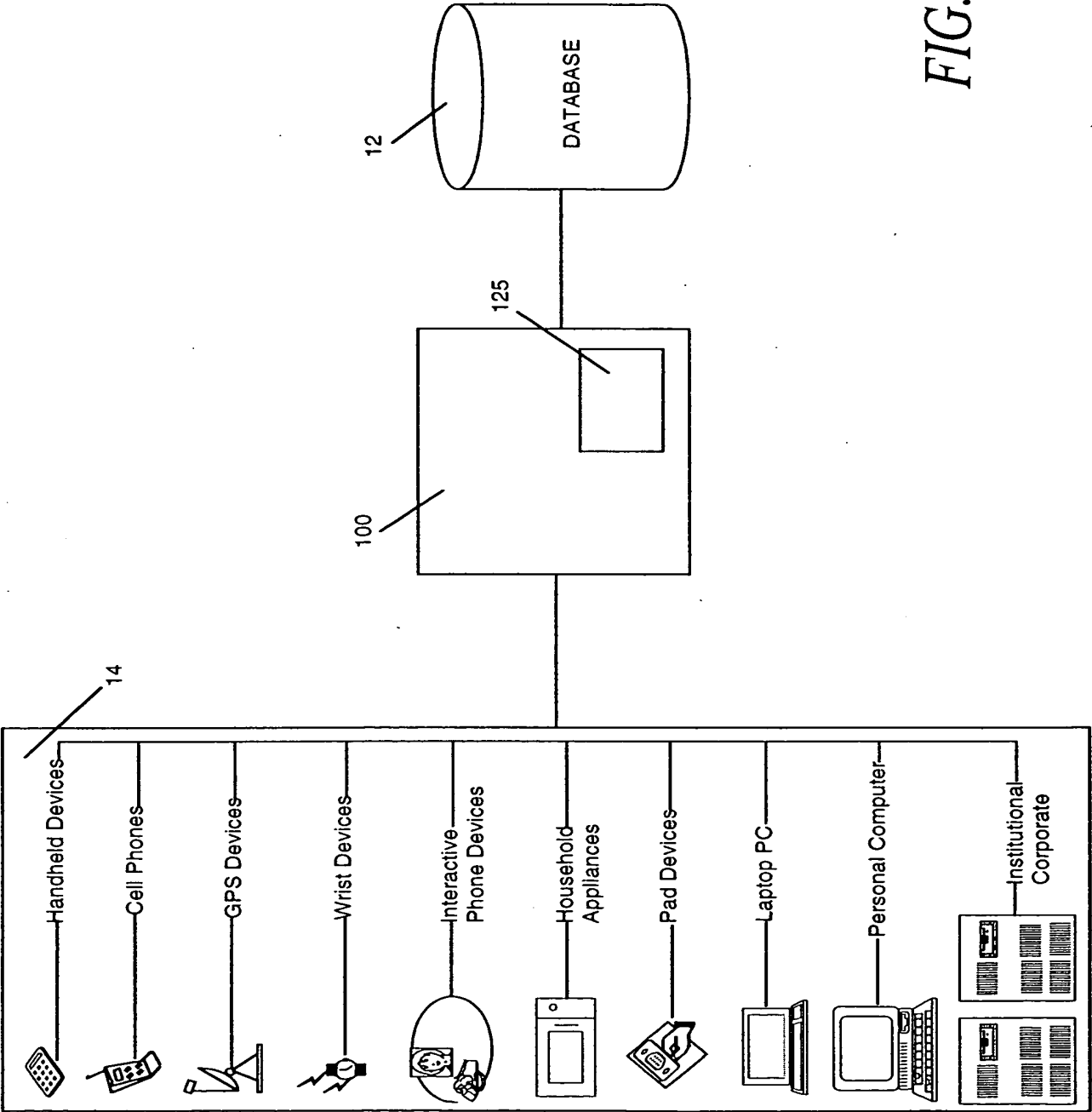


FIG. 2

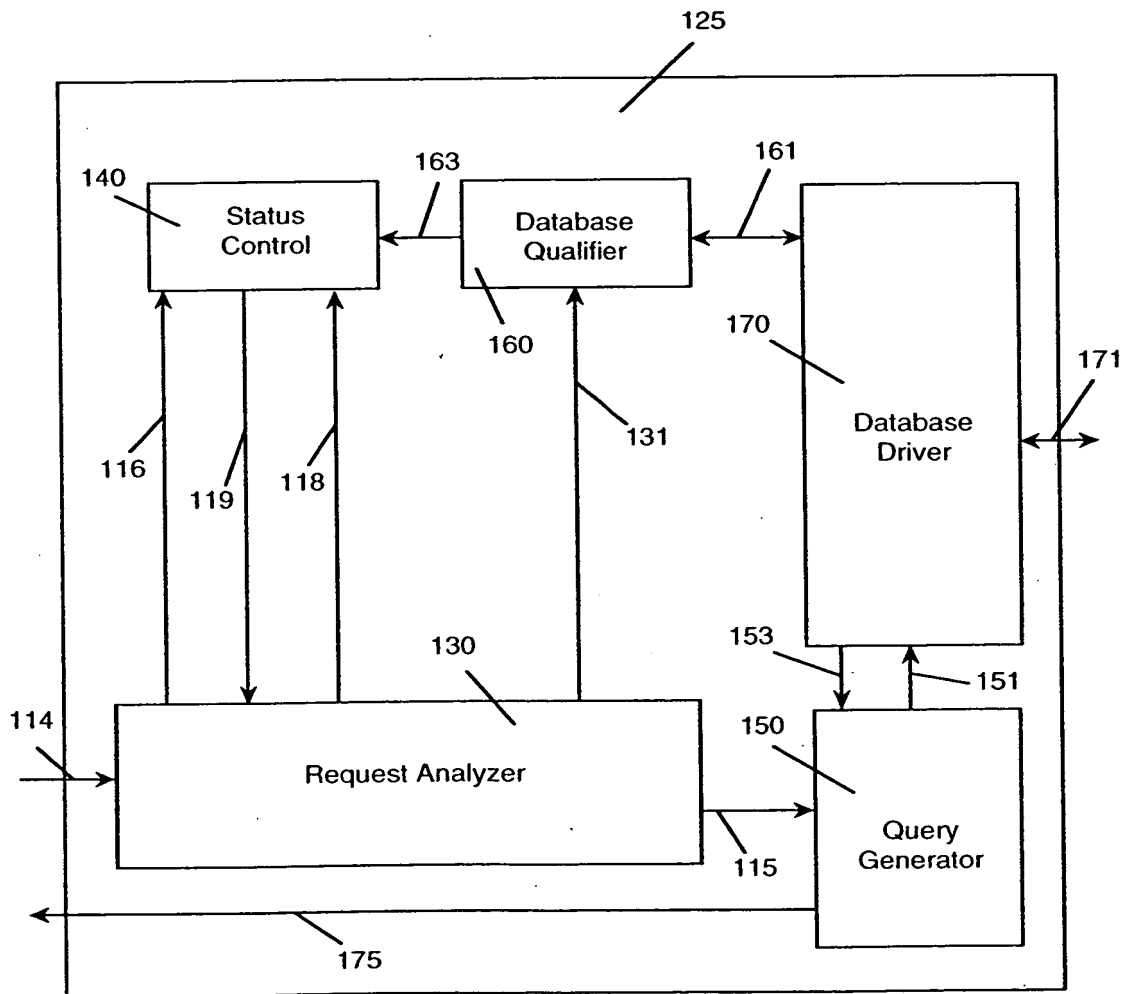


FIG. 3

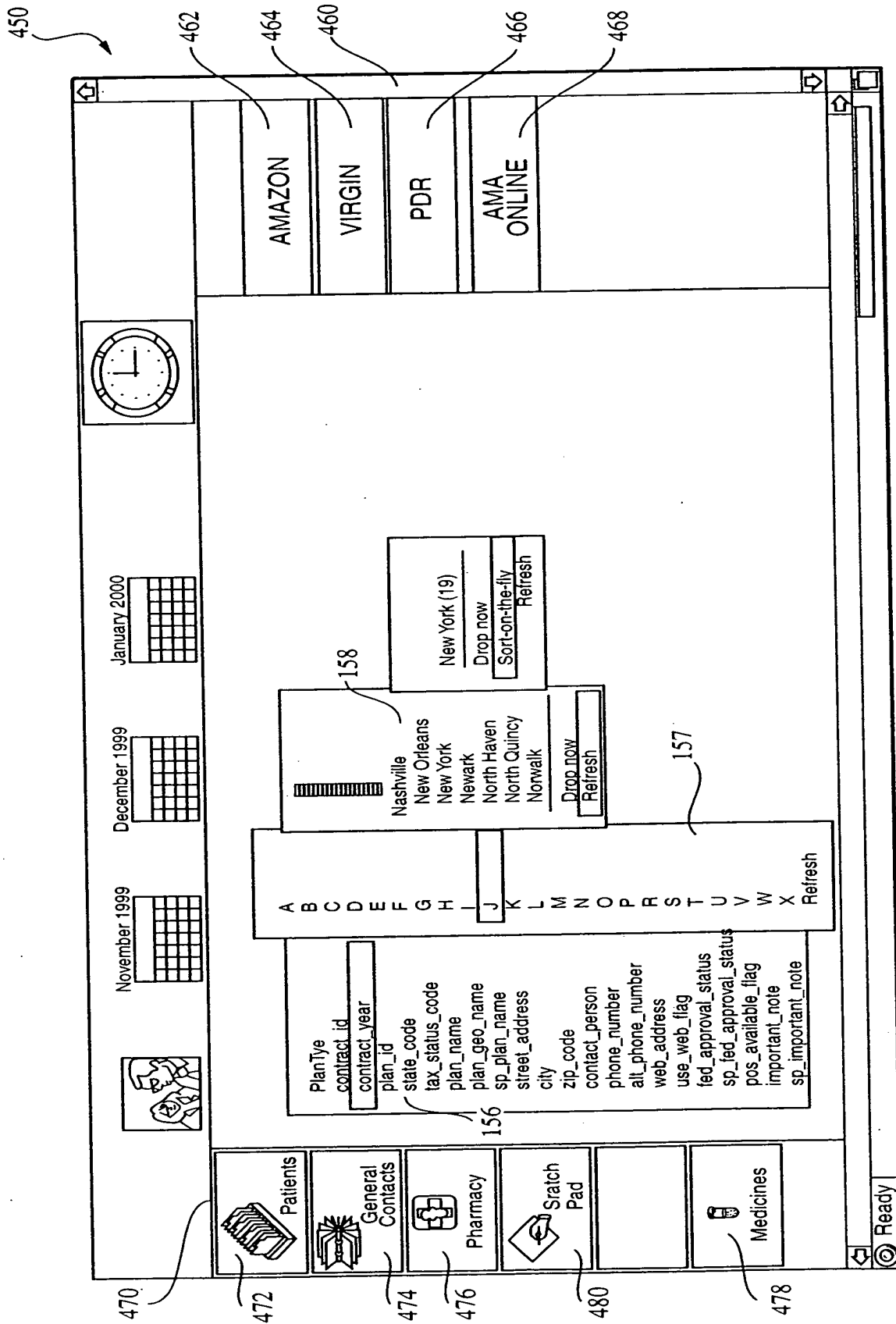


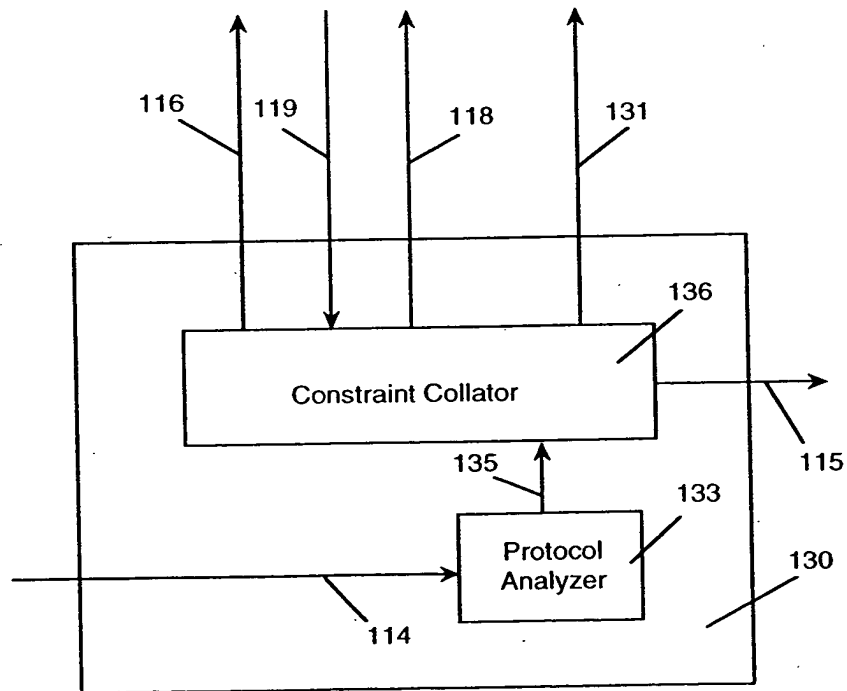
FIG. 4

**Title:** SEARCH-ON-THE-FLY WITH MERGE FUNCTION

**Inventor(s):** Joseph L. DeBellis

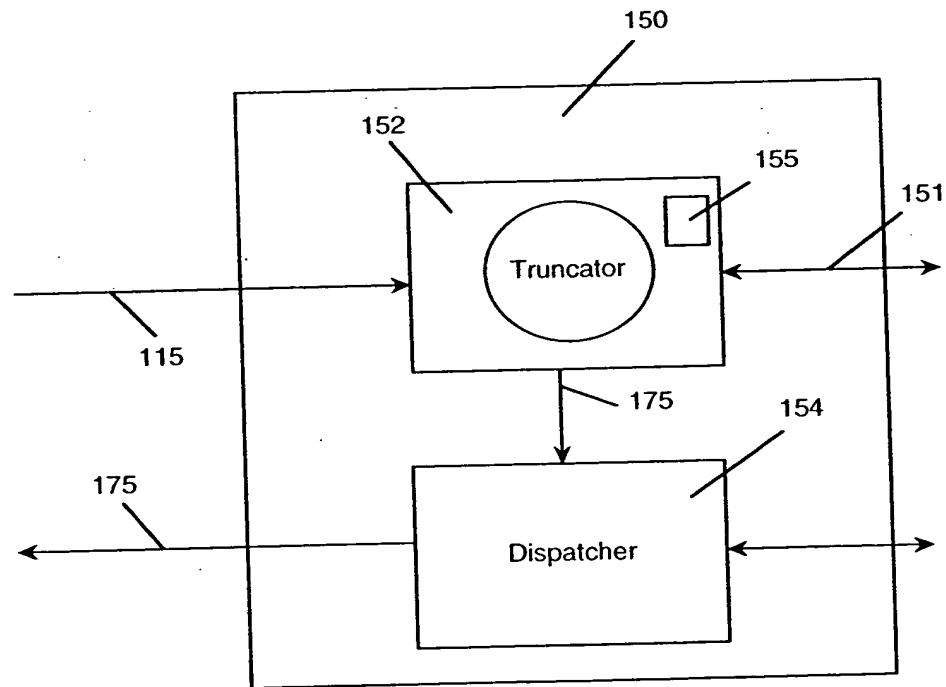
**Contact Name:** Aldo Noto (703) 288-5222

**Attorney Docket No.:** 5607



**FIG. 5**

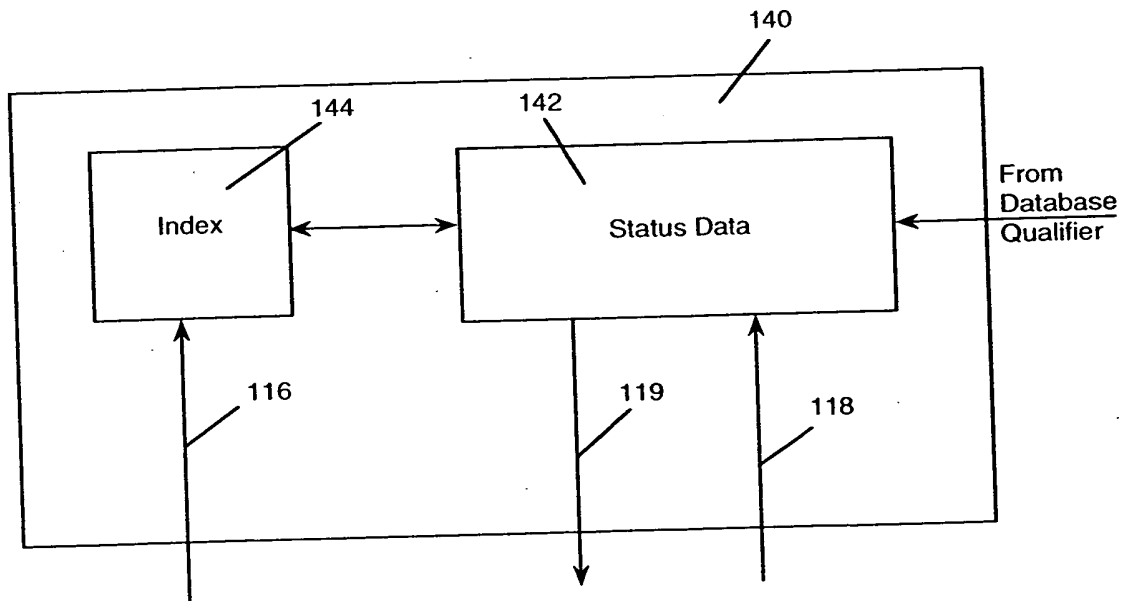
0995540 "595E660



*FIG. 6*

0993565-082401

**Title:** SEARCH-ON-THE-FLY WITH MERGE FUNCTION  
**Inventor(s):** Joseph L. DeBellis  
**Contact Name:** Aldo Noto (703) 288-5250  
**Attorney Docket No.:** 5607



**FIG. 7**

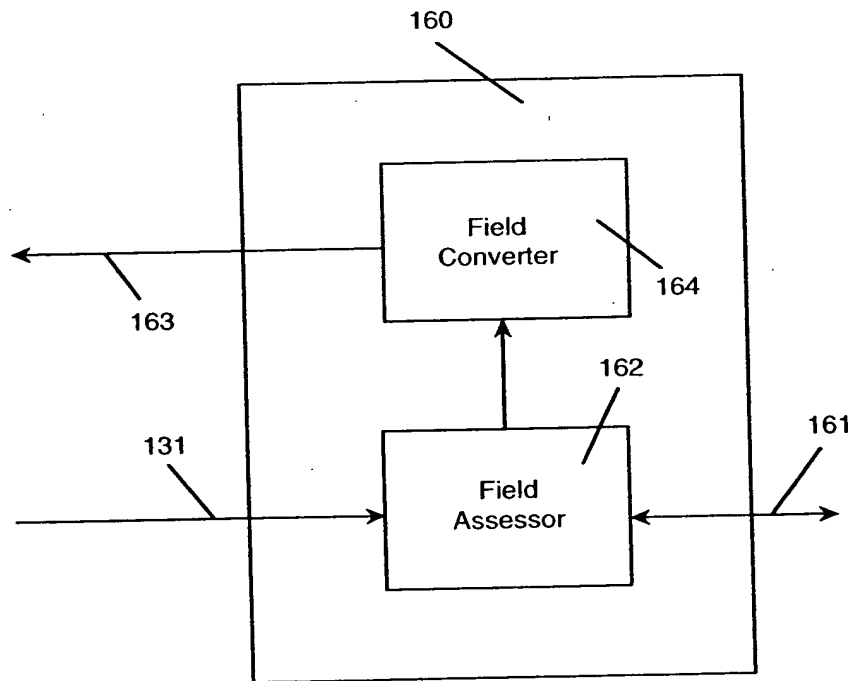
0993555-032401

**Title:** SEARCH-ON-THE-FLY WITH MERGE FUNCTION

**Inventor(s):** Joseph L. DeBellis

**Contact Name:** Aldo Noto (703) 288-5211

**Attorney Docket No.:** 5607



**FIG. 8**

093555-08401  
104280" 5955E660



Title: SEARCH-ON-THE-FLY WITH MERGE FUNCTION

Inventor(s): Joseph L. DeBellis

Contact Name: Aldo Noto (703) 288-5200

Attorney Docket No.: 5607

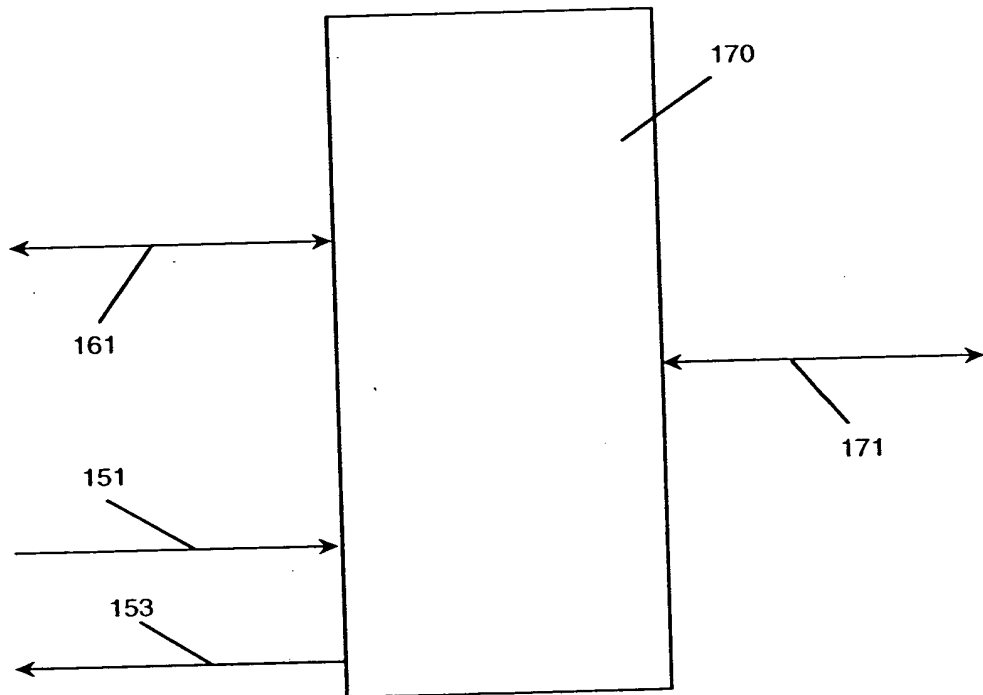


FIG. 9

FOI-280" 59552550

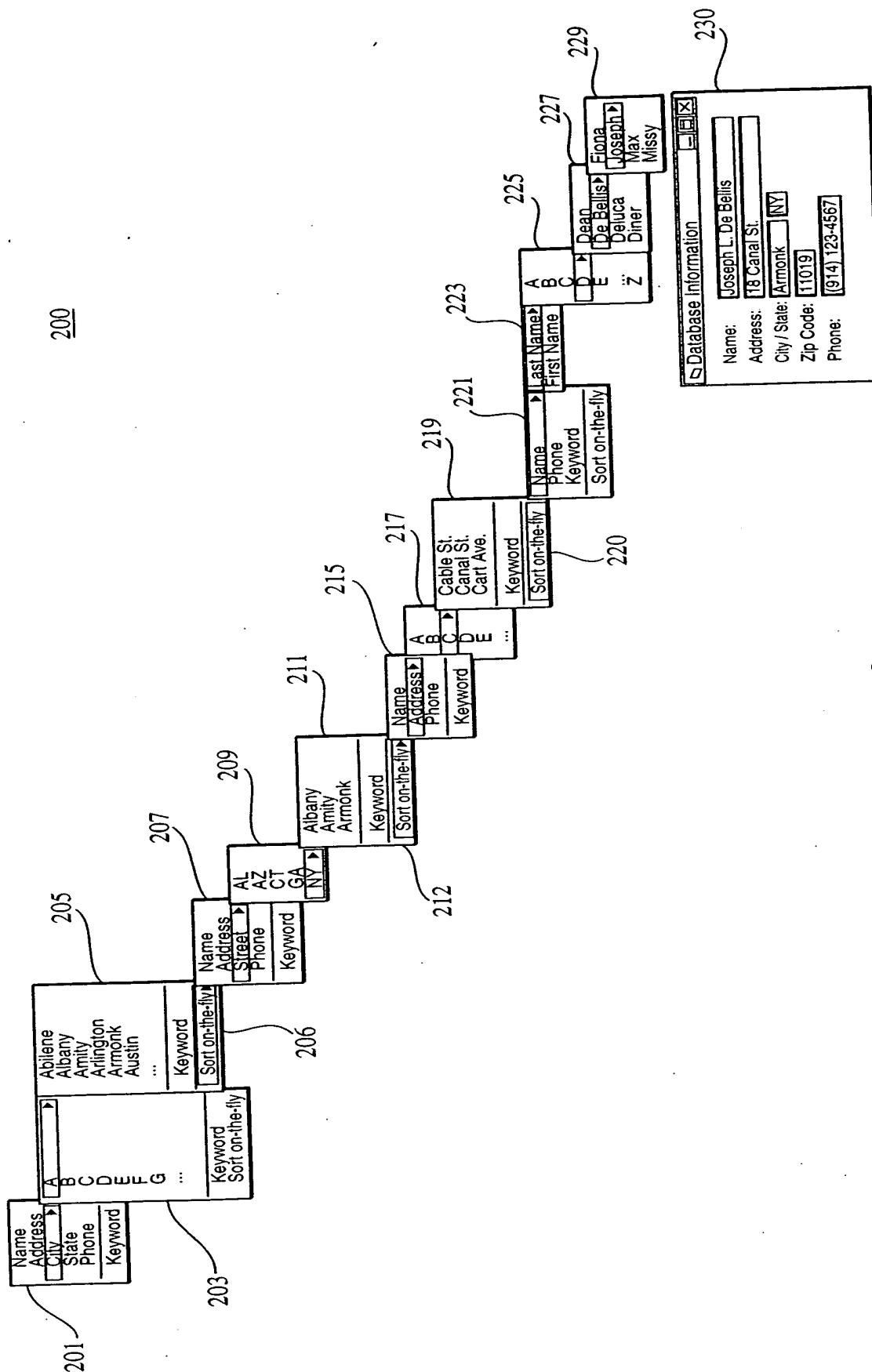
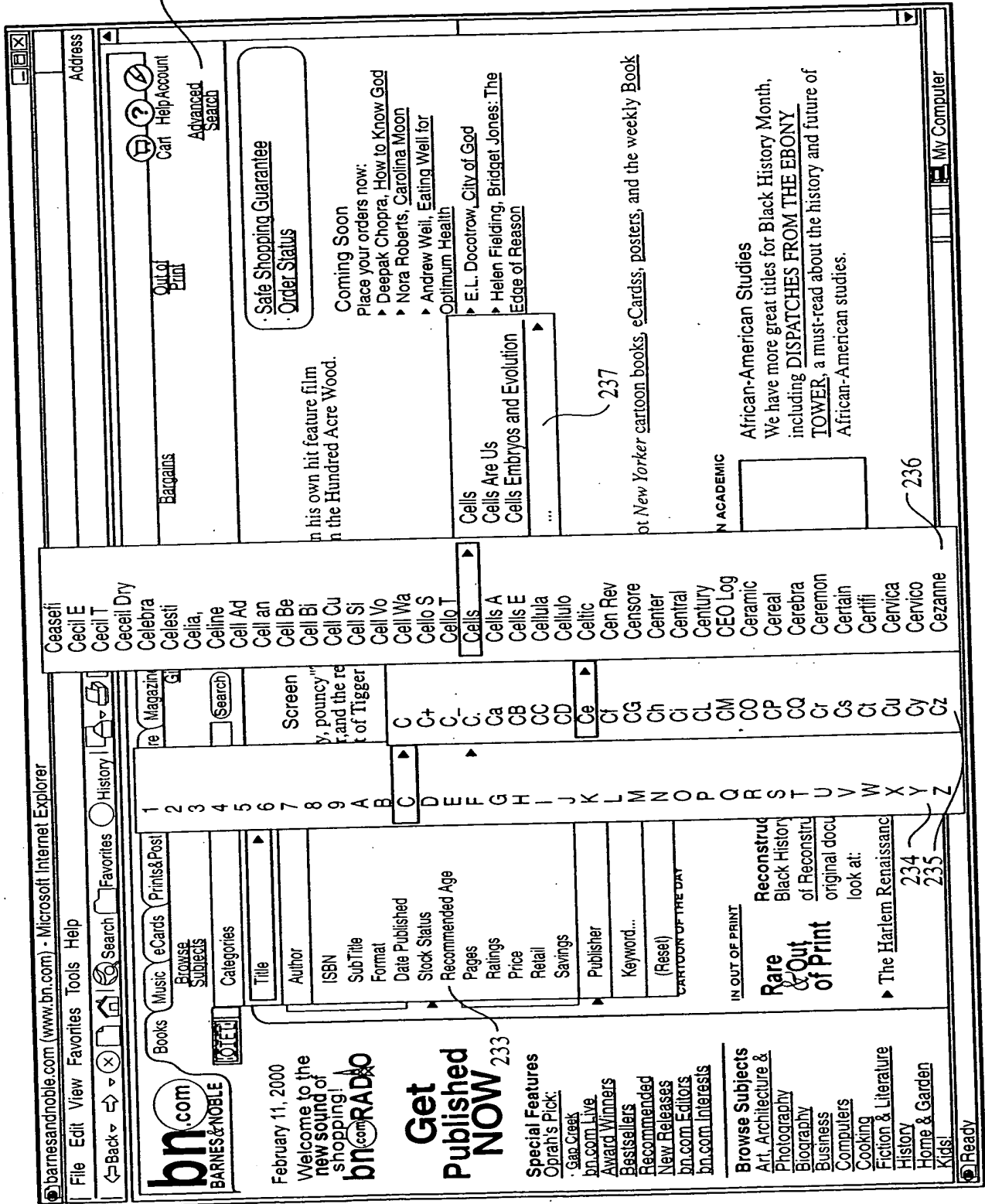


FIG. 10



Title: SEARCH-ON-THE-FLY WITH MERGE FUNCTION

Inventor(s): Joseph L. DeBellis

Contact Name: Aldo Noto (703) 288-5250

Attorney Docket No.: 5607

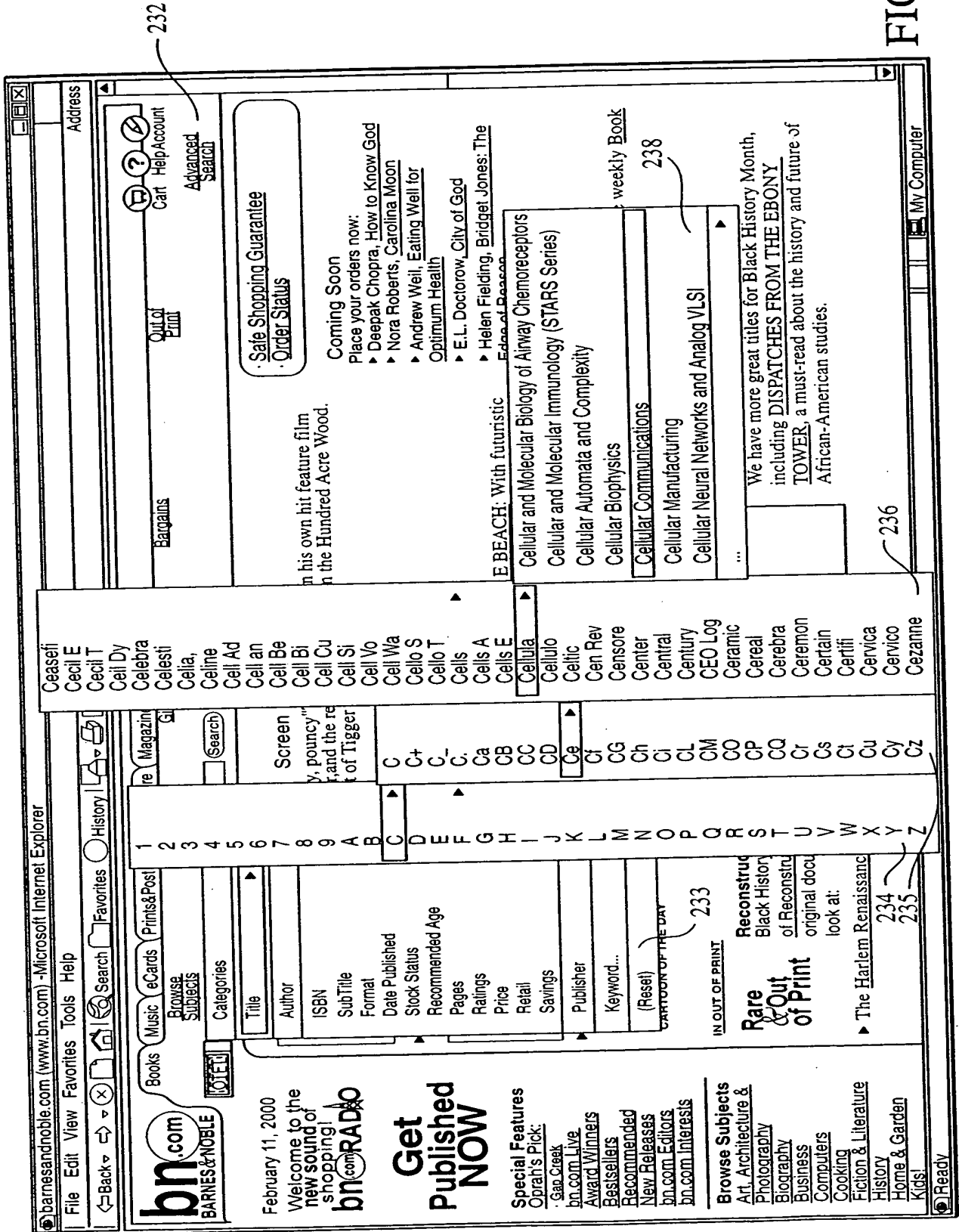


FIG. 12



Title: SEARCH-ON-THE-FLY WITH MERGE FUNCTION  
 Inventor(s): Joseph L. DeBellis  
 Contact Name: Aldo Noto (703) 288-5200  
 Attorney Docket No.: 5607

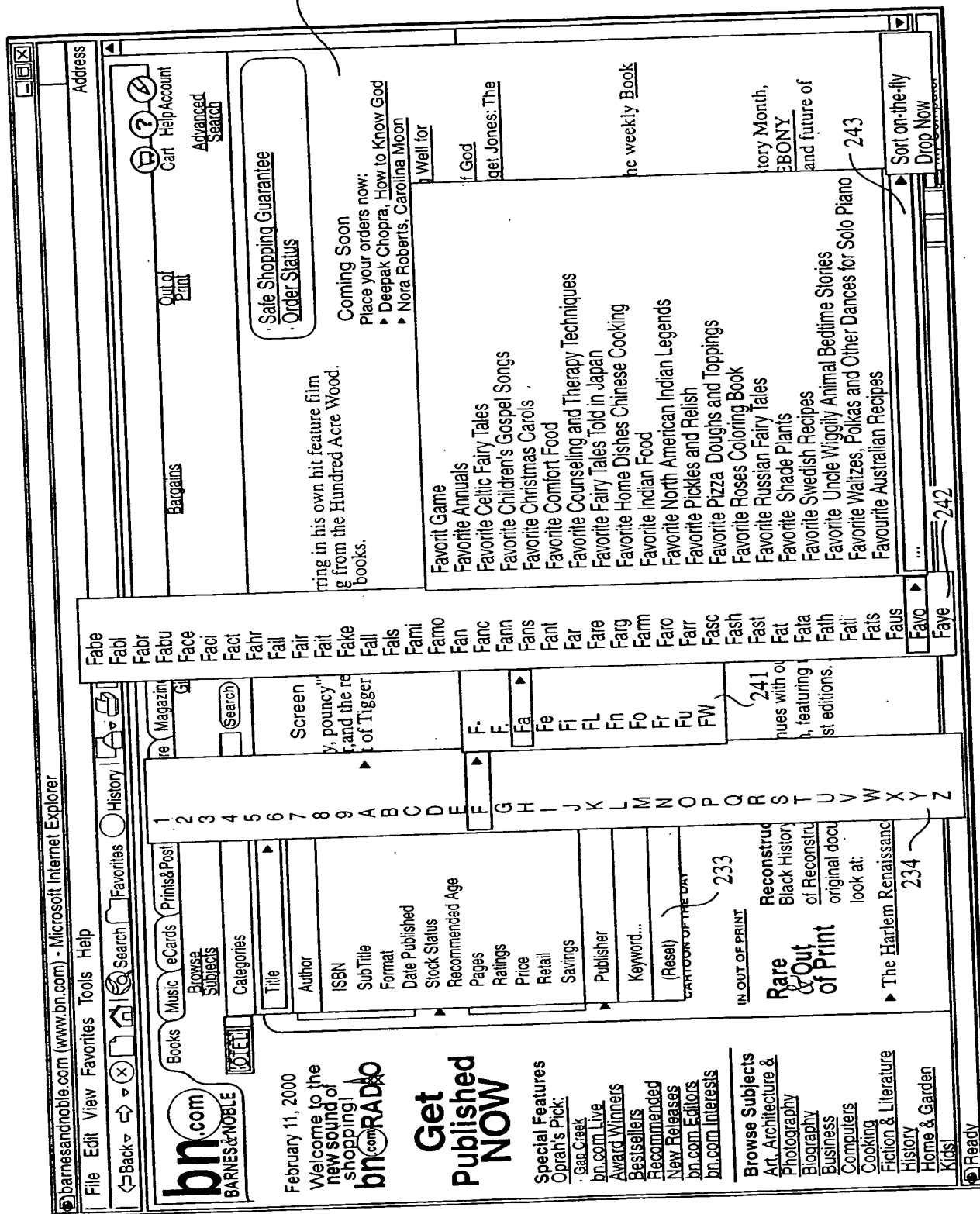


FIG. 14

**Attorney Docket No.: 5607**

FIG. 15a

February 11, 2000

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**249**

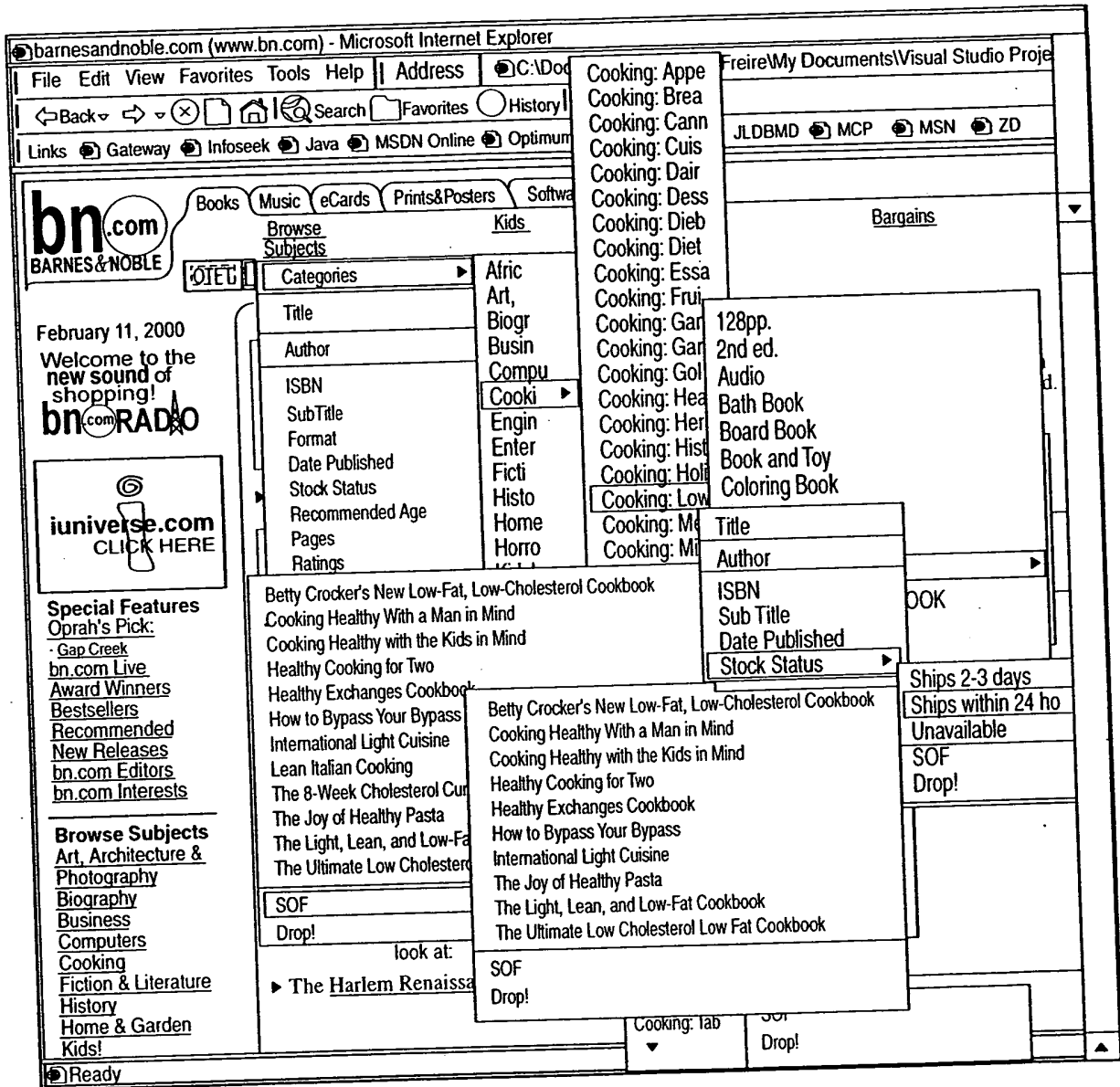


FIG. 15b



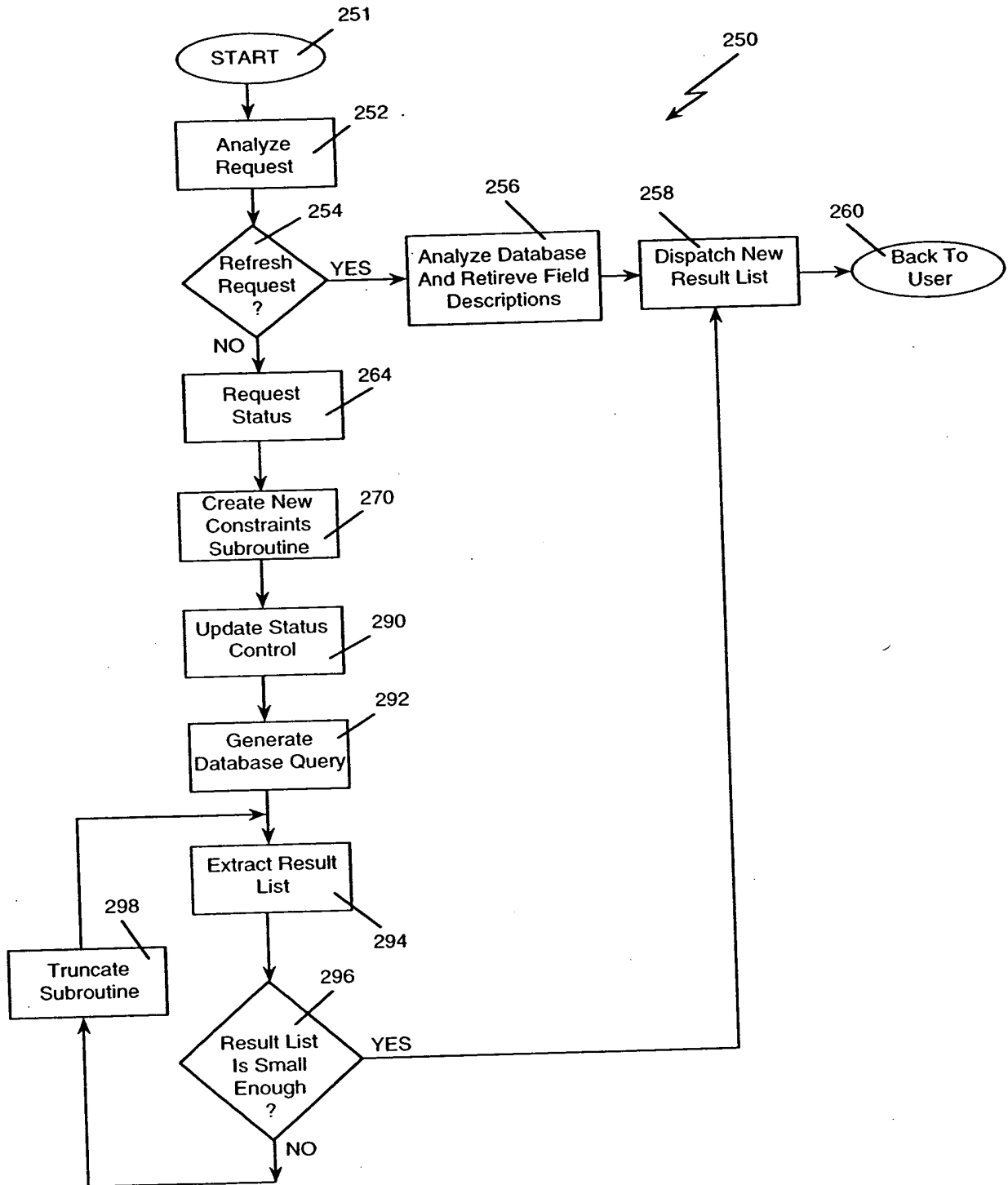


FIG. 16

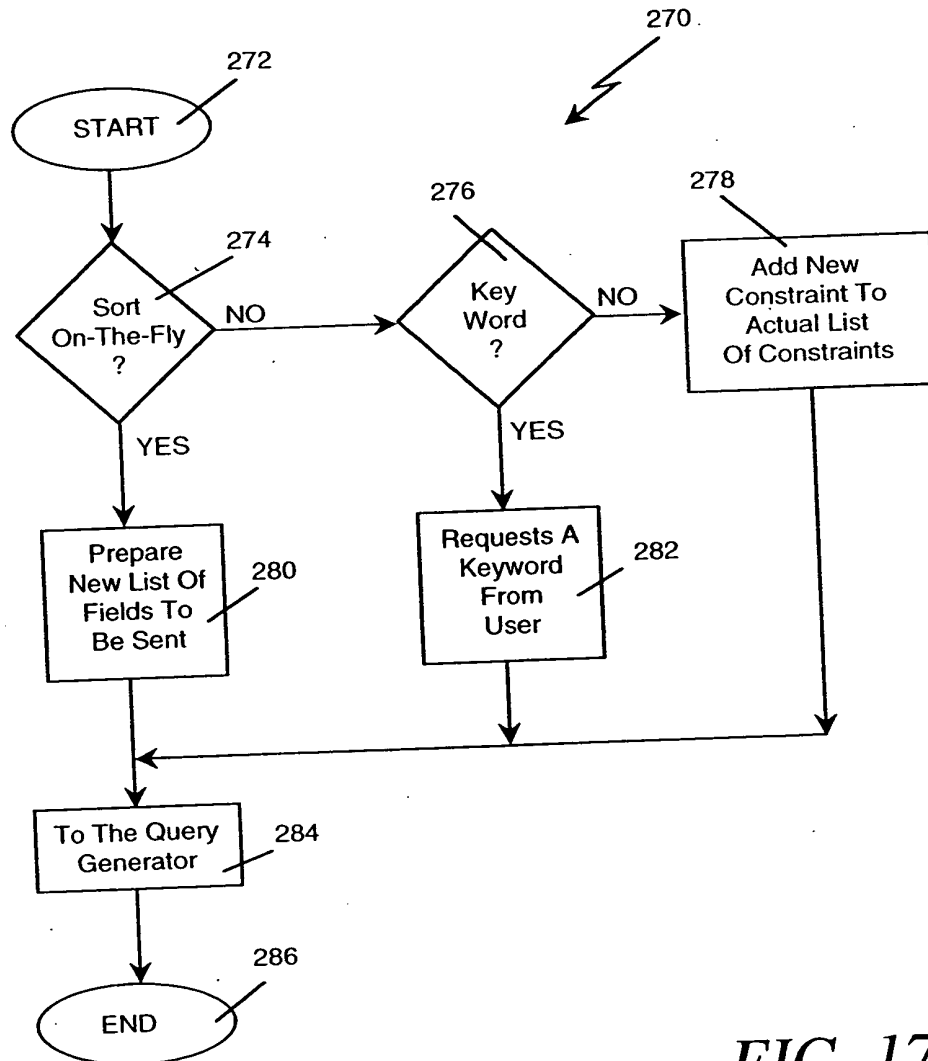
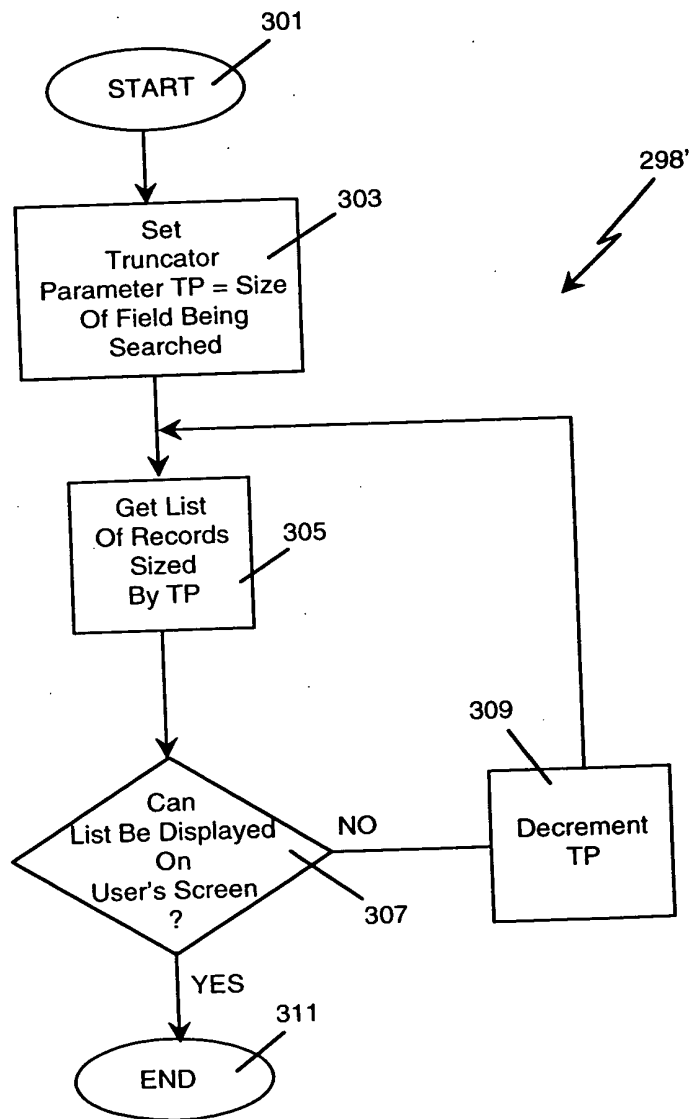


FIG. 17



**FIG. 18**

0935565 "082401

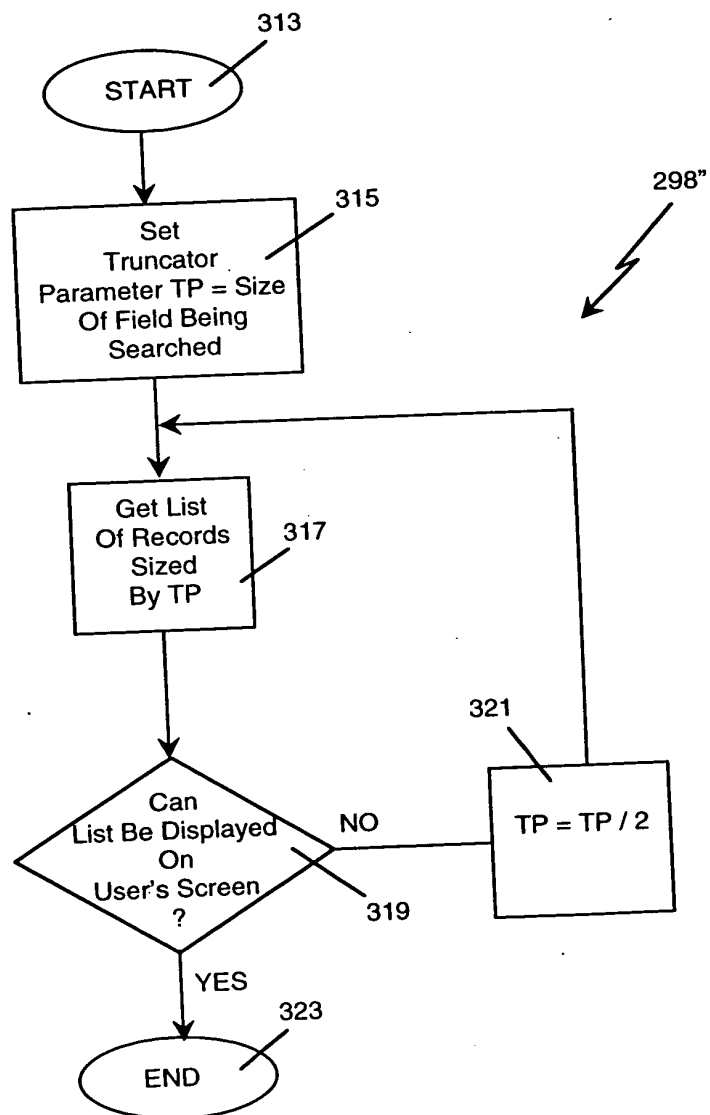


FIG. 19

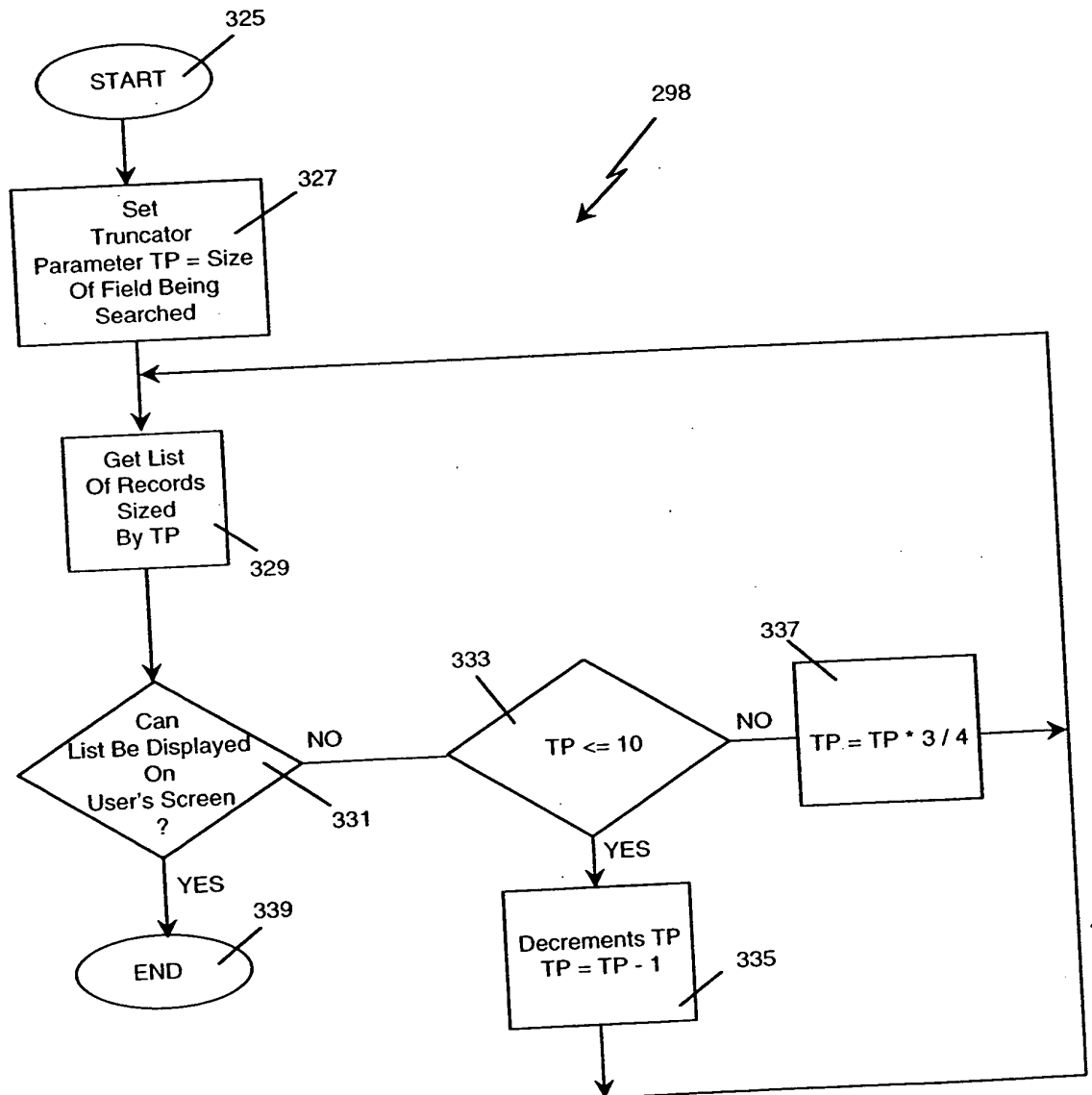


FIG. 20

FIG. 21

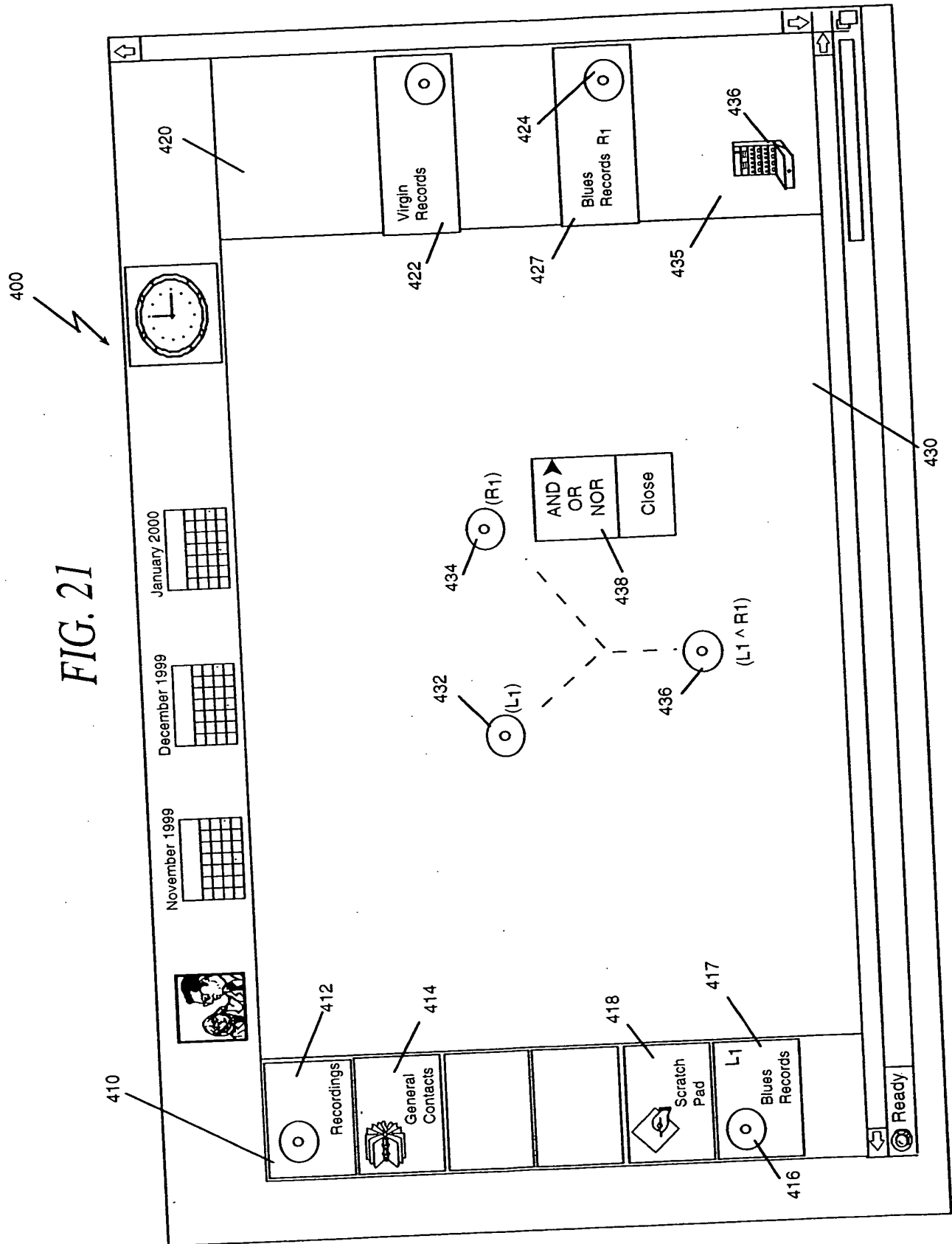


FIG. 22

FIG. 22

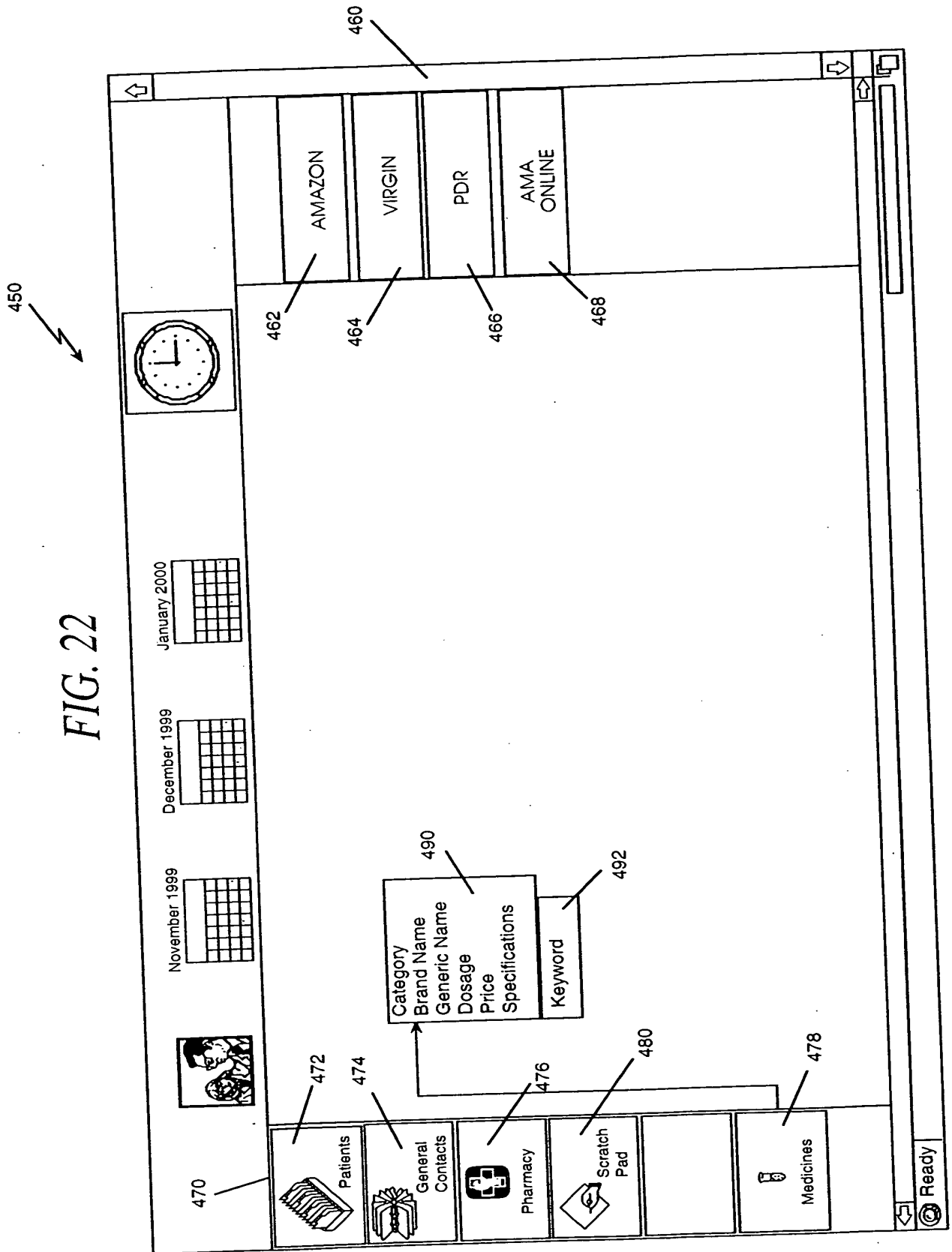
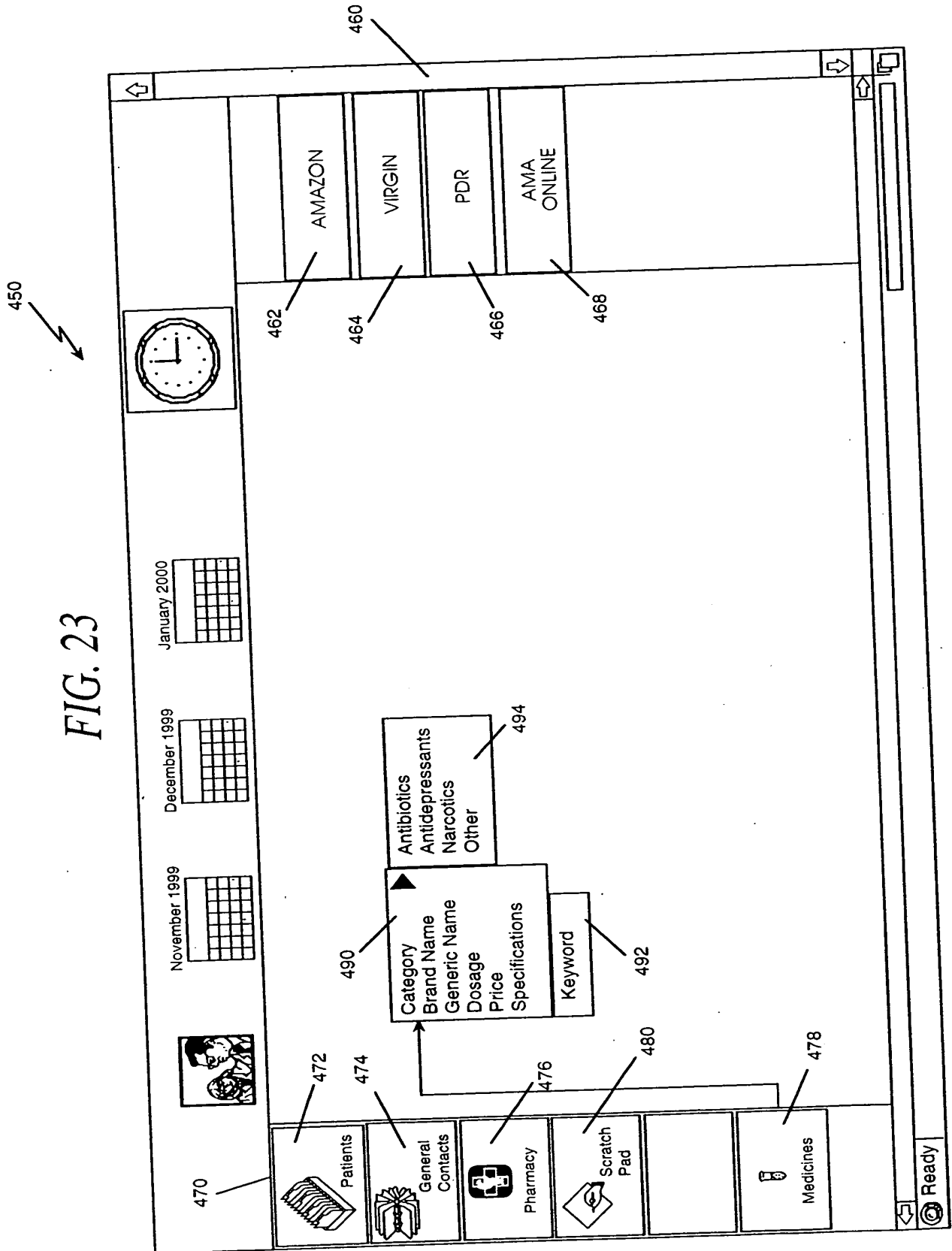


FIG. 23





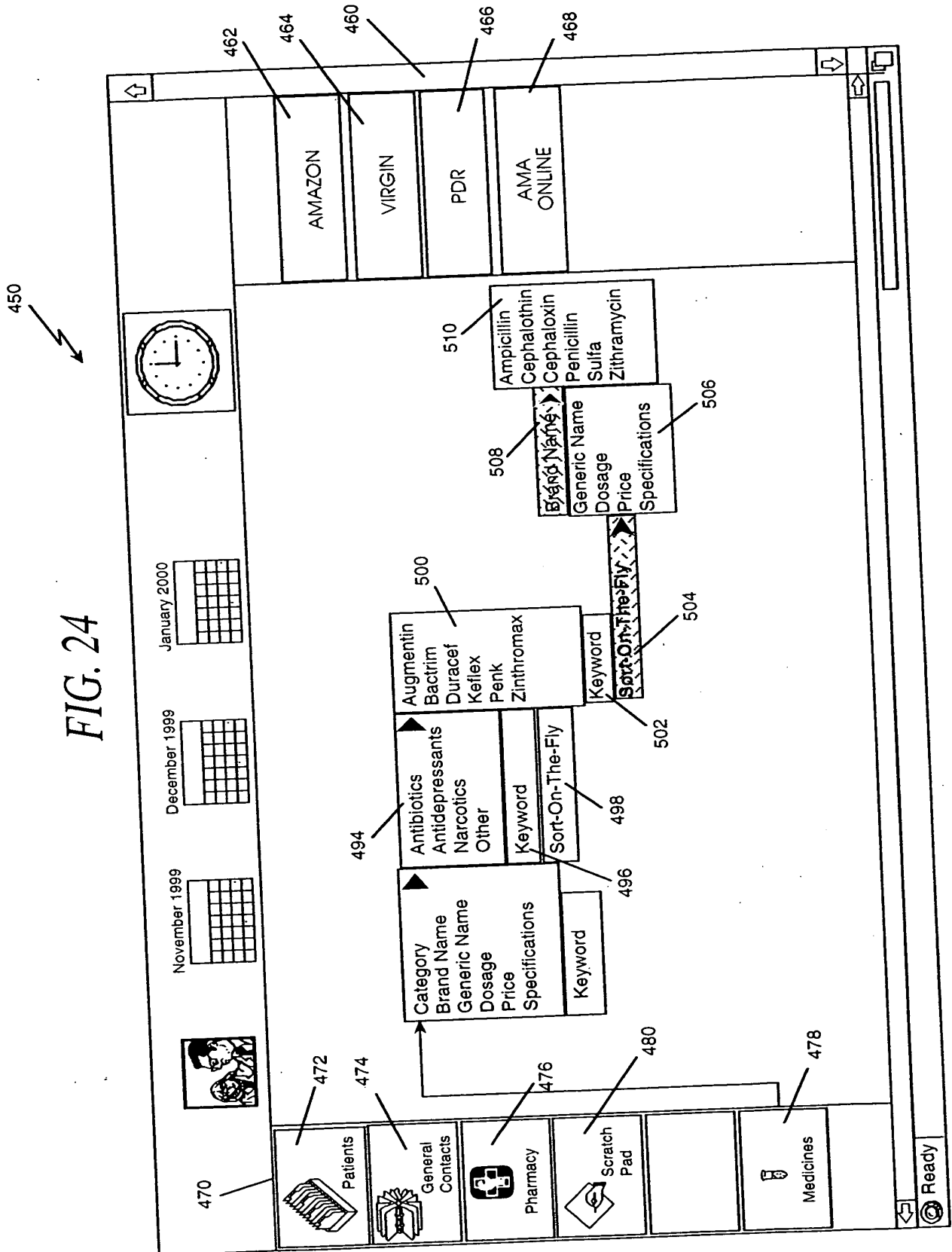


FIG. 25

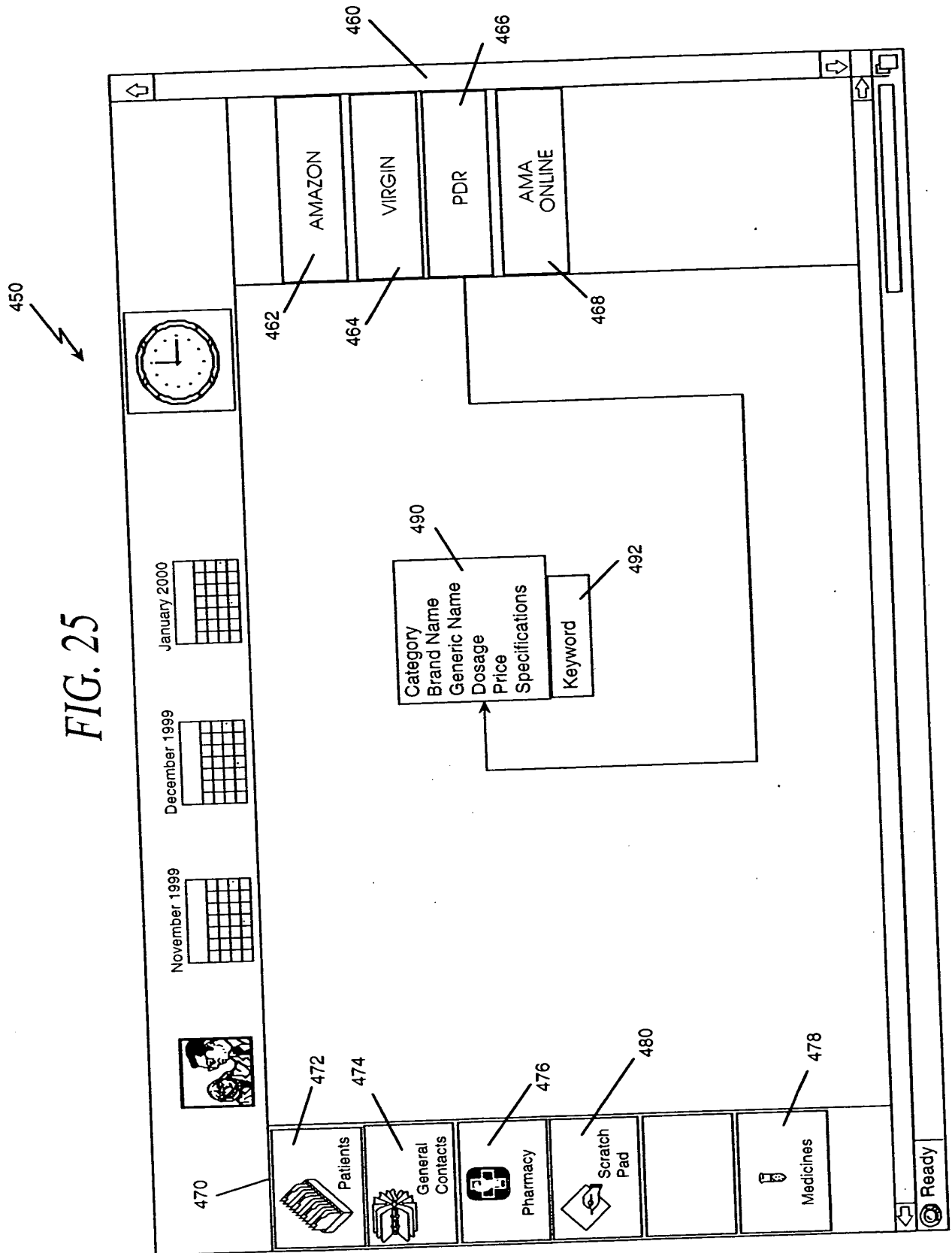
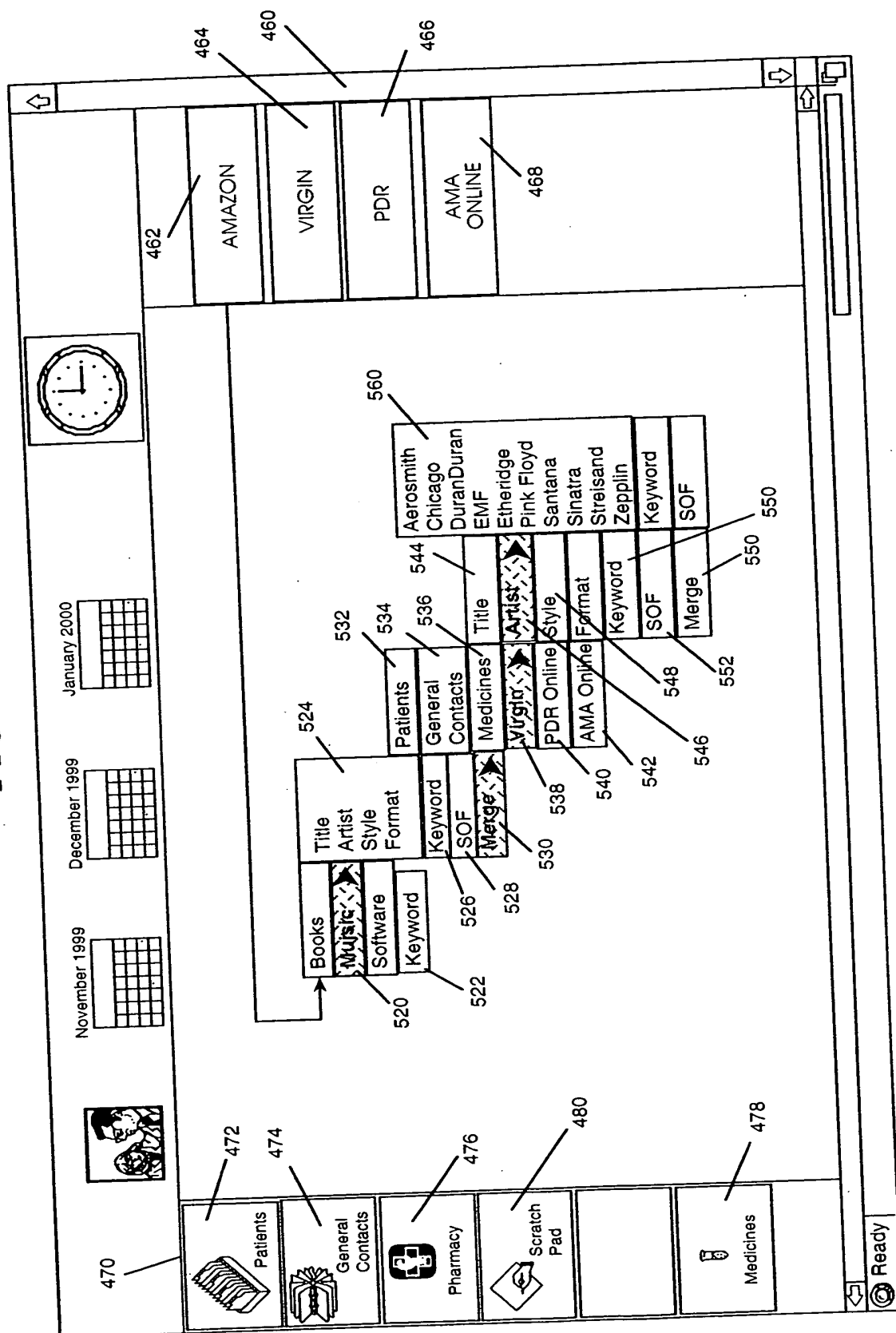
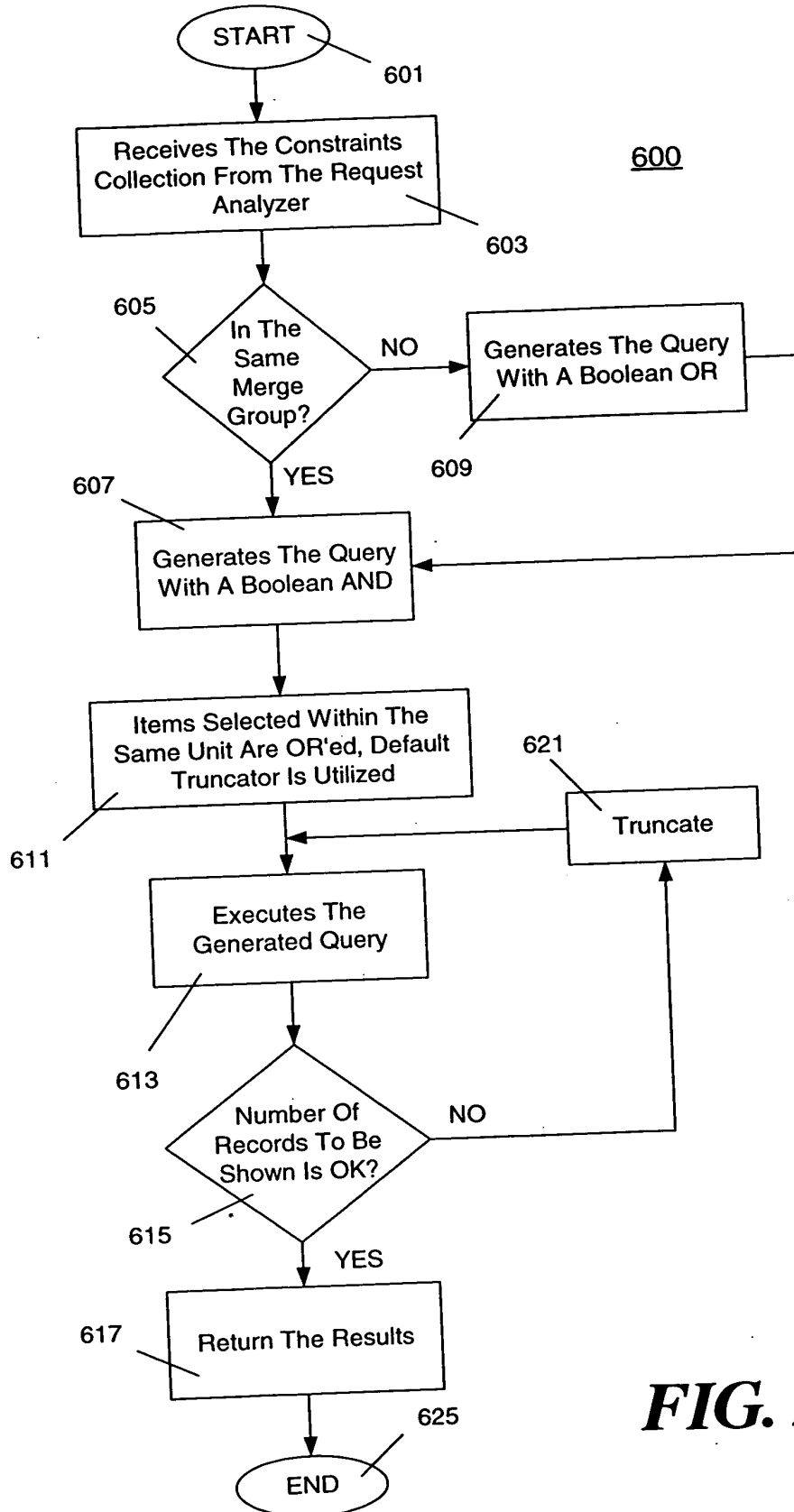


FIG. 26

450





630

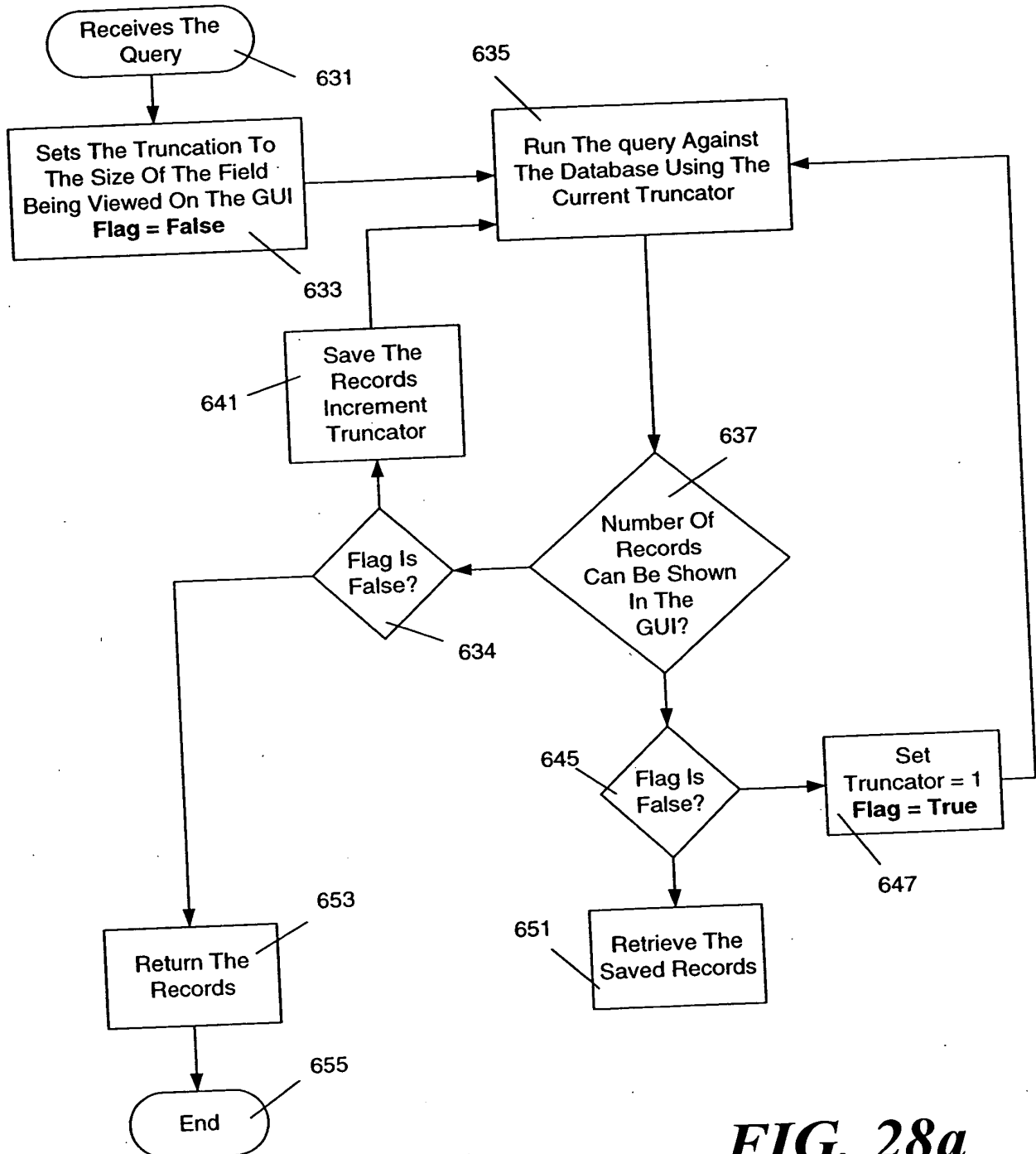


FIG. 28a

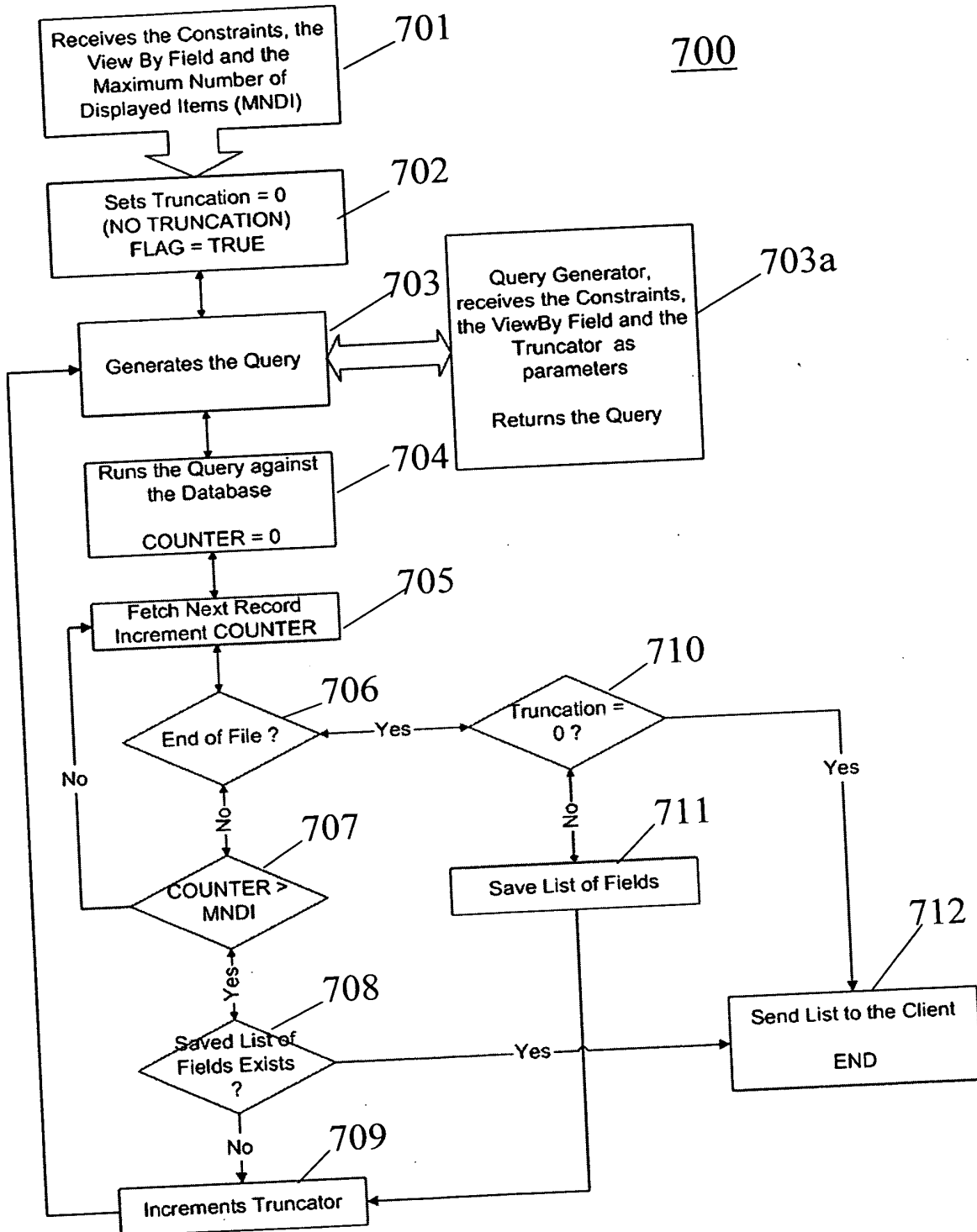


FIG. 28b

[illegible]

**Inventor(s):** Joseph L. DeBellis  
**Contact Name:** Aldo Noto (703) 288-5288  
**Attorney Docket No.:** 5607

**Inventor(s):** Joseph L. DeBellis

**Contact Name:** Aldo Noto (703) 288-5250

**Attorney Docket No.: 5607**

FIG. 30

[illegible]



MDI Form 1		S.O.F.	DB Oper.	SOF Setup
View By...	Patent Number Patent Title	<div style="float: right; margin-top: -20px;"> <input type="checkbox"/> Assignee  <input checked="" type="checkbox"/> 3-M Company (St. Paul, MN)  <input type="checkbox"/> 3M Company (St. Paul, MN)         </div>		
Assignee	View By...	Merge		
Patent Number Patent Title  Assignee Inventor Name Inventor Location Application Number Application Date Primary Examiner Assistant Examiner Attorney Parent Patent Date Issued US Classes International Classes US References Foreign References	<input type="checkbox"/> * <input type="checkbox"/> ( <input type="checkbox"/> r <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z	<div style="float: right; margin-top: -20px;"> <input type="checkbox"/> Assignee  <input checked="" type="checkbox"/> 3-M Company (St. Paul, MN)  <input type="checkbox"/> 3M Company (St. Paul, MN)         </div>		
		<div style="float: right; margin-top: -20px;"> <input type="checkbox"/> Assignee  <input checked="" type="checkbox"/> 3-M Company (St. Paul, MN)  <input type="checkbox"/> 3M Company (St. Paul, MN)         </div>		

[illegible]

[illegible]

**Attorney Docket No.: 5607**

FIG. 34

[illegible]

[illegible]

	Assignee	Patent Title
Anisotropic retardation layers for display devices Dispenser roll cover and methods of preparation and use thereof Damping unit for globular storage tank Dark acrylic pressure-sensitive adhesive Data accumulation system Data cartridge with secondary tape guides Data processing form Data storage structure of garment patterns to enable subsequent computerized predilection DC Power supply for high power discharge devices Decorizable imaging system Decorative ribbon or sheet material Demand and timed renewing imaging media Denatal filling composition utilizing zinc-containing inorganic filler Dentin and enamel adhesive Desensitizer for ferromagnetic markers used with electromagnetic article surveillance systems Desensitizing dyes for photographic emulsions Detachable abrasive disk Detecting system Detection of articles Developer compositions for silver halide photographic materials comprising cyclic amino methane diphenols Developer compositions having layer of a pigment on the surface thereof Developer material level sensor Developer powder supply cartridge Developing powder composition containing a fluorine-modified alkyl siloxane Developing powder composition containing fluoroaliphatic sulfonamido surface active agent Device and method for applying flexible balls to containers Device for backing butt-welds between tubes Device for cutting a support half for a radially expanded resilient sleeve Device for exposing colorant to be transferred Device for forming graphics Device for fusing lengths of film over the open ends of cups Device for restraining an object or objects therein Device to slow solenoid actuation motion Diagnostic radio-labeled polysaccharide derivatives Dieper closure utilizing pressure-sensitive adhesive tape having textured foil backing Diagnosis imaging system Dielectric stress relief at a high voltage cable termination Diffraction lens Digital communications system with automatic frame synchronization and detector circuitry Digital frame synchronizing circuit Digital motor control system Dimensionally-controlled cobalt-containing precision molded metal article Direct positive silver halide emulsions containing quaternated marocyanine dyes Directional radiation detector Disc cartridge Disc dispenser Disinfectable dental sealant Disinfecting method and compositions Disk cartridge Disk loading mechanism for disk cartridge	Disk restraint Delateta jacket Dispensable polypropylene adhesive-coated tape Dispenser for a stack of note paper Dispenser for adhesive coated sheet material Dispenser for protected write-on labels Dispenser package Dispersed imaging systems with tetra (hydrocarbyl) borate salts	Patents - Assignee 3M Innovative Company (St. Paul, MN) 3M Company (St. Paul, MN) 3M Innovative Properties Co. (St. Paul, MN) 3M Innovative Properties Co. (St. Paul, MN) 3M Innovative Properties Company 3M Innovative Properties Company (Saint Paul, MN) 3M Innovative Properties Company (St. Paul, MN) 3M Innovative Properties Company (St. Paul, MN) 3M Innovative Properties Company (St. Paul, MN) <b>Merged Subseed</b> Minnesota M <b>Merged Subseed</b> Patents - Title D
Drop wire connector Dry magnetic pressure-fixable developing powder Dry strip antihalation layer for photothermographic film Dry transfer article Dry transfer graphics article and methods of preparation and use thereof Dry transfer graphics article method of preparation Dual grooved Fresnel lens for overhead projection Dual particle population magnetic recording medium Dual status magnetic marker having magnetically biasable flux collectors for use Durable glass elements Durable melt-blown particle-loaded sheet material Durable, polishable direct filling material Durably stain-repellent and soil-resistant pile fabric and process Dust mop Dust mop frame Dyed aqueous air foams Dyes suitable for sensitization of photoconductive systems Electrical connector tape Electrically conductive metal oxide coatings Method for writing arbitrary index perturbations in a wave-guiding structure View By... Merge	Biographic pinning plate Drop wire connector Dry magnetic pressure-fixable developing powder Dry strip antihalation layer for photothermographic film Dry transfer article Dry transfer graphics article and methods of preparation and use thereof Dry transfer graphics article method of preparation Dual grooved Fresnel lens for overhead projection Dual particle population magnetic recording medium Dual status magnetic marker having magnetically biasable flux collectors for use Durable glass elements Durable melt-blown particle-loaded sheet material Durable, polishable direct filling material Durably stain-repellent and soil-resistant pile fabric and process Dust mop Dust mop frame Dyed aqueous air foams Dyes suitable for sensitization of photoconductive systems Electrical connector tape Electrically conductive metal oxide coatings Method for writing arbitrary index perturbations in a wave-guiding structure View By... Merge	

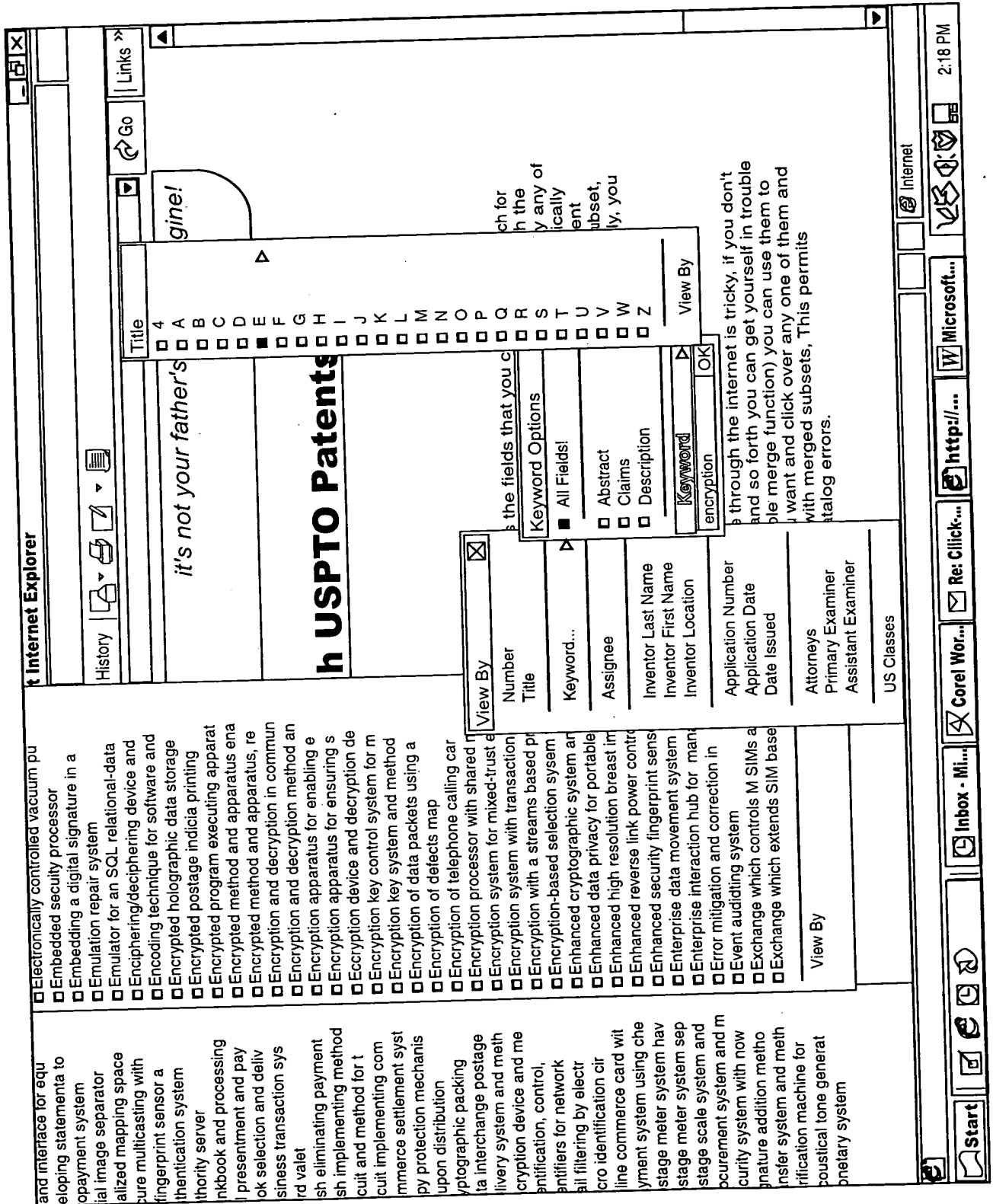
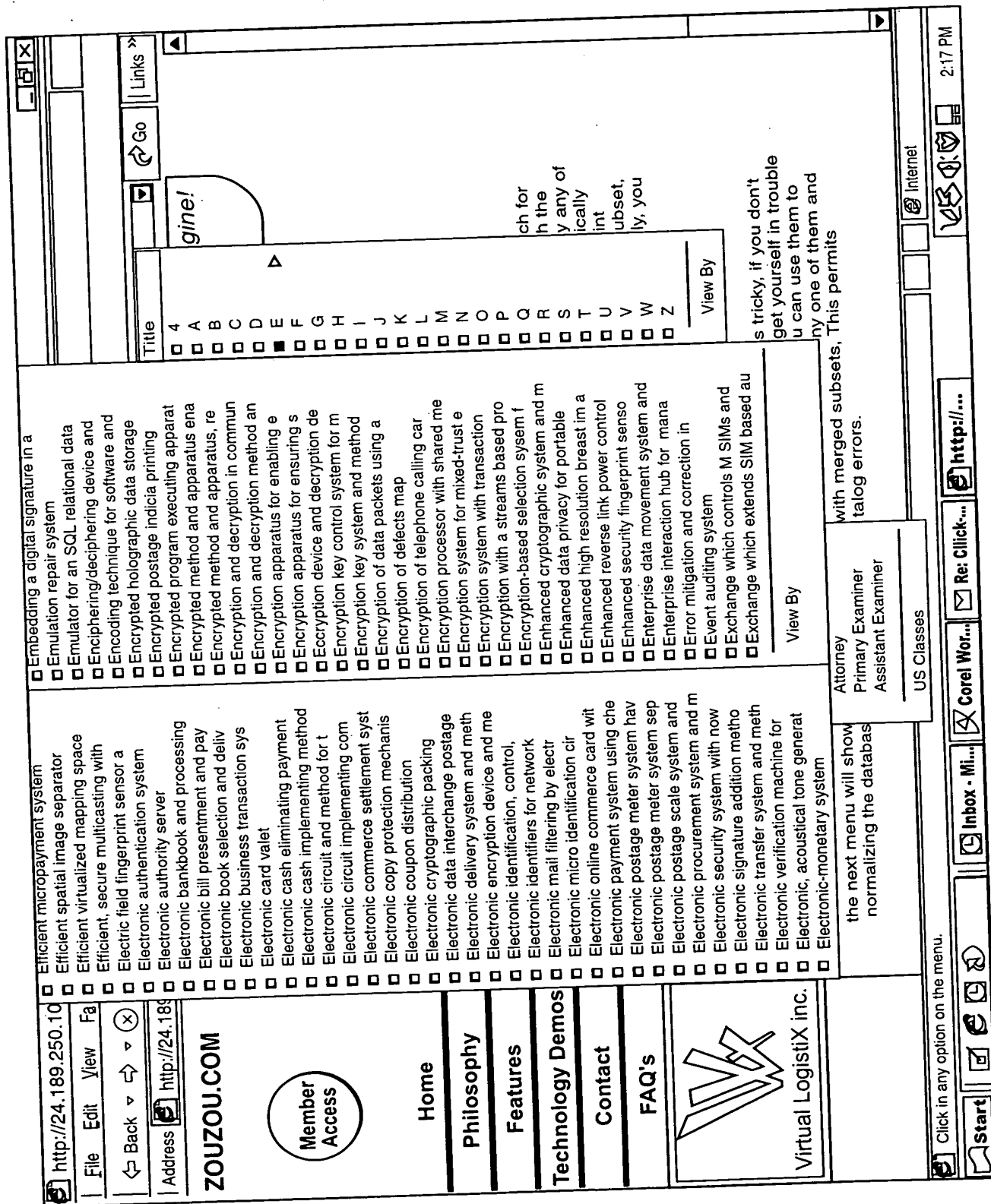


FIG. 38

Title: SEARCH-ON-THE-FLY WITH MERGE FUNCTION  
Inventor(s): Joseph L. DeBellis  
Contact Name: Aldo Noto (703) 288-5250  
Attorney Docket No.: 5607

FIG. 38





**Title:** SEARCH-ON-THE-FLY WITH MERGE FUNCTION

**Inventor(s):** Joseph L. DeBellis

**Contact Name:** Aldo Noto (703) 288-5250

**Attorney Docket No.:** 5607

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**Patent: 5935246**

**Electronic copy protection mechanism using challenge and response to prevent unauthorized execution of software**

**Date Filled:**

4/11/1997

**Date Issued:**

8/10/1999

**Application Number:**

838620

**Go to USPTO.GOV**

**USPTO**

**Abstract:**

A copy protection mechanism for protecting software against copying, consists of a challenge mechanism embedded in each protected item of software. The challenge mechanism has no access to the customer's private keying material. In operation, the challenge mechanism sends a random challenge to the customer's signature server. The signature server signs the challenge, using the customer's private keying material and then returns the signed challenge to the challenge mechanism. The challenge mechanism then verifies the signed challenge, using the customer's public keying material, and prohibits the customer from using some or all of the protected item of software unless the verification is successful. The mechanism permits every customer to receive an identical copy of the copy protected program with the embedded challenge mechanism.

**Inventors:**

Benson, Glenn Stuart

**Inventor Location:**

Munich, DE

**Assignee:**

International Computers Limited (Limited, GB)

**US Classes:**

713/200

713/201

**International Classes:**

**US References:**

4558176

4926480

4947430

5109413

5146575

5224163

5315657

5371794

5436972

5568552

5724425

**Foreign References:**

**Primary Examiner:**

Kizou, Hassan

**Assistant Examiner:**

Mai, Rijue

**Attorney:**

Lee, Mann, Smith, McWilliams, Sweeney & Ohlson

**Claims:**

**FIG. 39**

0935565 "082401  
104280" 5953660

[illegible]

S.O.F.																																																																																																																																																	
<p><b>Attorney</b></p> <table border="1" style="width: 100%;"> <tr><td>D/A</td><td>Div</td></tr> <tr><td>D</td><td>Dix</td></tr> <tr><td>Dab</td><td>Dob</td></tr> <tr><td>Dac</td><td>Dod</td></tr> <tr><td>Dah</td><td>Doe</td></tr> <tr><td>Dai</td><td>Doh</td></tr> <tr><td>Dal</td><td>Dol</td></tr> <tr><td>Dam</td><td>Dor</td></tr> <tr><td>Daq</td><td>Dos</td></tr> <tr><td>Dau</td><td>Dou</td></tr> <tr><td>Dav</td><td>Dow</td></tr> <tr><td>Daw</td><td>Doy</td></tr> <tr><td>Day</td><td>Dra</td></tr> <tr><td>de</td><td>Dre</td></tr> <tr><td>Dea</td><td>Dri</td></tr> <tr><td>deb</td><td>Dro</td></tr> <tr><td>Dec</td><td>Dru</td></tr> <tr><td>Ded</td><td>Dry</td></tr> <tr><td>Dee</td><td>Dub</td></tr> <tr><td>Deg</td><td>Duc</td></tr> <tr><td>Deh</td><td>Dud</td></tr> <tr><td>Del</td><td>Duf</td></tr> <tr><td>Dej</td><td>Dug</td></tr> <tr><td>Dem</td><td>Duh</td></tr> <tr><td>Den</td><td>Dum</td></tr> <tr><td>Dep</td><td>Dun</td></tr> <tr><td>Der</td><td>Dur</td></tr> <tr><td>Des</td><td>Dus</td></tr> <tr><td>Det</td><td>Dut</td></tr> <tr><td>Deu</td><td>Duz</td></tr> <tr><td>Dev</td><td>Dvo</td></tr> <tr><td>Dew</td><td>Dwe</td></tr> <tr><td>Dex</td><td>Dwo</td></tr> <tr><td>Dhu</td><td>Dwy</td></tr> <tr><td>Dia</td><td>Dyb</td></tr> <tr><td>Dic</td><td>Dyk</td></tr> <tr><td>Did</td><td>Dys</td></tr> <tr><td>Die</td><td></td></tr> <tr><td>Dik</td><td></td></tr> <tr><td>Dil</td><td></td></tr> <tr><td>Dim</td><td></td></tr> <tr><td>Din</td><td></td></tr> <tr><td>Dio</td><td></td></tr> <tr><td>Dip</td><td></td></tr> <tr><td>Dis</td><td></td></tr> <tr><td>Dit</td><td></td></tr> </table> <p><b>View By...</b></p>	D/A	Div	D	Dix	Dab	Dob	Dac	Dod	Dah	Doe	Dai	Doh	Dal	Dol	Dam	Dor	Daq	Dos	Dau	Dou	Dav	Dow	Daw	Doy	Day	Dra	de	Dre	Dea	Dri	deb	Dro	Dec	Dru	Ded	Dry	Dee	Dub	Deg	Duc	Deh	Dud	Del	Duf	Dej	Dug	Dem	Duh	Den	Dum	Dep	Dun	Der	Dur	Des	Dus	Det	Dut	Deu	Duz	Dev	Dvo	Dew	Dwe	Dex	Dwo	Dhu	Dwy	Dia	Dyb	Dic	Dyk	Did	Dys	Die		Dik		Dil		Dim		Din		Dio		Dip		Dis		Dit		<p><b>Attorney</b></p> <table border="1" style="width: 100%;"> <tr><td>A</td><td>Dorchak, Frederick J.</td></tr> <tr><td>B</td><td>Dorfman, Herrell and Skillman</td></tr> <tr><td>C</td><td>Dorfman, John C.</td></tr> <tr><td>D</td><td>Dorty &amp; Manning</td></tr> <tr><td>E</td><td>Dorty, John P., Cleaver, William S.</td></tr> <tr><td>F</td><td>Dorman, Ira S.</td></tr> <tr><td>G</td><td>Dorman, William S.</td></tr> <tr><td>H</td><td>Dorr, Carson, Sloan &amp; Peters</td></tr> <tr><td>I</td><td>Dorr, Carson, Sloan and Peters</td></tr> <tr><td>J</td><td>Dorr, Carson, Sloan, &amp; Peters</td></tr> <tr><td>K</td><td>Dorsey &amp; Whitney</td></tr> <tr><td>L</td><td>Dorsey, Daniel K.</td></tr> <tr><td>M</td><td>Dorsey, Marquart, Windhorst,</td></tr> <tr><td>N</td><td>Dorsey, Windhorst, HannaFord</td></tr> <tr><td>O</td><td></td></tr> <tr><td>P</td><td></td></tr> <tr><td>Q</td><td></td></tr> <tr><td>R</td><td></td></tr> <tr><td>S</td><td></td></tr> <tr><td>T</td><td></td></tr> <tr><td>U</td><td></td></tr> <tr><td>V</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>X</td><td></td></tr> <tr><td>Y</td><td></td></tr> <tr><td>Z</td><td></td></tr> </table> <p><b>View By...</b></p>	A	Dorchak, Frederick J.	B	Dorfman, Herrell and Skillman	C	Dorfman, John C.	D	Dorty & Manning	E	Dorty, John P., Cleaver, William S.	F	Dorman, Ira S.	G	Dorman, William S.	H	Dorr, Carson, Sloan & Peters	I	Dorr, Carson, Sloan and Peters	J	Dorr, Carson, Sloan, & Peters	K	Dorsey & Whitney	L	Dorsey, Daniel K.	M	Dorsey, Marquart, Windhorst,	N	Dorsey, Windhorst, HannaFord	O		P		Q		R		S		T		U		V		W		X		Y		Z	
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<p><b>View BY</b></p> <p>Title</p> <p>Patent Number:</p> <p>Inventor Name</p> <p>Inventor's Location</p> <p>US References</p> <p>Foreign References</p> <p>US Classes</p> <p>International Classes</p> <p>Application Number</p> <p>Application Date</p> <p>Issue Date</p> <p>Primary Examiner</p> <p>Assistant Examiner</p> <p>Attorney</p> <p>Assignee</p>	<p><b>Inventor Location</b></p> <p>10 City Hwy #4, Wrenshall, MN 55797</p> <p>1111 Hayden Ave., Altoona, WI 54720</p> <p>1424 N Danube Rd., Fridley, MN 55432</p> <p>1622 Lake Johanna Blvd., Arden Hills, MN 55112</p> <p>1925 Noble Dr., Minneapolis, MN 55422</p> <p>2000 Argonne Dr., Minneapolis, MN 55421</p> <p>31 Alexandra Mansion, 333 Kings Road, London, SW3 5ET, GB</p> <p>3109 Clinton Ave. South, Minneapolis, MN 55408</p> <p>48 Woodland Gardens, London, N10 3JA, GB</p> <p>5188 St. Moritz Dr., Fridley, MN 55421</p> <p>5437 Elliot Ave. S., Minneapolis, MN 55417</p> <p>5437 Elliot Ave. South, Minneapolis, MN 55417</p> <p>6805 Sheridan Ave. S., Richfield, MN 55423</p> <p>8000, 18e avenue, Ville Saint-Michel, Montreal, Quebec, CA</p> <p>Aberdeen, SD</p> <p>Atton, MN</p> <p>Andover, MN</p> <p>Blaine, MN</p> <p>Bloomington, MN</p> <p>Brooklyn Park, MN</p> <p>Bundaberg, AU</p> <p>Burnsville, MN</p> <p>Chicago, IL</p> <p>Circle Pines, MN</p> <p>Derwin, MN</p> <p>Eagan, MN</p> <p>Edina, MN</p> <p>Embleton, AU</p> <p>Excelsior, MN</p> <p>Golden Valley, MN</p> <p>Kardinya, AU</p> <p>Lawrenceville, NJ</p>																																																																																																																																																

MDIForm1		S.O.F.		Attorney		Assignee	
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Title		Patent Number		Inventor Name		Inventor's Location	
US References		Foreign References		US Classes		International Classes	
Application Number		Application Date		Issue Date		Primary Examiner	
Assistant Examiner		Attorney		Assignee			
D/A		Div		Dorchak, Fredrick J.		Amca International Corporation (St. Paul, MN)	
D		Dix		Dorfman, Herell and Skillman		Austoft Industries Limited (Queensland, AU)	
Dab		Dob		Dorfman, John C.		Bennett Automotive Technology Pty. Ltd. (Melbourne, AU)	
Dac		Doc		Dority & Manning		Bennett Automotive Technology Pty. Ltd. (Melbourne, AU)	
Dah		Dod		Dority, John P., Cleaver, William E., Truex, Marshall M.		Bennett Automotive Technology Pty. Ltd. (Victoria, AU)	
Dai		Doe		Dorman, Ira S.		Carlson; Chesley F. (Plymouth, MN)	
Dal		Doh		Dorman, William S.		Carter-Day Company (Minneapolis, MN)	
Dan		Dol		Dorr, Carson, Sloan & Peterson		Chesley F. Carlson Company (Plymouth, MN)	
Dar		Dom		Dorr, Carson, Sloan and Peterson		Cleanair Engineering Pty. Ltd. (AU)	
Dau		Don		Dorsey & Whitney		CyberOptics Corporation (Minneapolis, MN)	
Dav		Doo		Dorsey, Daniel K.		E.F. Johnson Company (Waseca, MN)	
Daw		Dor		Dorsey, Marquart, Windhorst, West & Halladay		EquiMed Corporation (Plymouth, MN)	
Day		Dor		Dorsey, Windhorst, Hannaford, Whitney & Halladay		General Mills, Inc. (Minneapolis, MN)	
de		Dor		View By...		Hutchinson technology, Inc. (Minneapolis, MN)	
Dea		Dor				IPL Inc. (St-Damien, CA)	
deB		Dor				John A. Dalsin & Son, Inc. (Minneapolis, MN)	
Dec		Dor				K.O. Lee Company (Aberdeen, SD)	
Ded		Dor				KI-On Trading Co., Ltd. (Seoul, KR)	
Ded		Dor				Kroy Inc. (Scottsdale, AZ)	
Dee		Dor				Kroy IN. (St. Paul, MN)	
Deg		Dor				Loran Maintenance of Way, Inc. (Hamel, MN)	
Deh		Dor				National Computer Systems, Inc. (Eden Prairie, MN)	
Dei		Dor				National Computer Systems, Inc. (Minneapolis, MN)	
DeJ		Dor				Red Devil Equipment Company (Bloomington, MN)	
DeL		Dor				Schering Systems, Inc. (Winsted, MN)	
Dem		Dor				Sentry Technologies, Inc. (Chanhassen, MN)	
Den		Dor				Sherping Systems, Inc. (Winstead, MN)	
DeP		Dor				SystemOne Holdings, Inc. (Houston, TX)	
Der		Dor				Tol-O-Matic, Inc. (Minneapolis, MN)	
Des		Dor				Waldorf Corporation (St. Paul, MN)	
Det		Dor				Wenger Corporation (Owanton, MN)	
Deu		Dor				View By...	
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FIG. 280" 5955650

Title: SEARCH-ON-THE-FLY WITH MERGE FUNCTION

Inventor(s): Joseph L. DeBellis

Contact Name: Aldo Noto (703) 288-5280

Attorney Docket No.: 5607

FIG. 43

MDIForm1		Attorney		Assignee	
S.O.F.		Attorney		Assignee	
/		Dorchak, Fredrick J.		Amca International Corporation (St. Paul, MN)	
0		Dorfman, Herell and Skillman		Austoft Industries Limited	
3		Dorfman, John C.		Bennett Automotive Tec	
A		Dority & Manning		Bennett Automotive Tec	
B		Dority, John P., Cleaver, William E., Truex, Marshall M.		Carlson; Chesley F. (Pl)	
C		Dorman, Ira S.		Carter-Day Company (N	
D		Dorr, William S.		Chesley F. Carlson Cor	
E		Dorr, Carson, Sloan & Peterson		Cleanair Engineering P	
F		Dorr, Carson, Sloan and Peterson		8/31/1987	
G		Dorr, Carson, Sloan & Peterson		9/11/1987	
H		Dorsey & Whitney		9/25/1987	
I		Dorsey, Daniel K.		10/1/1987	
J		Dorsey, Marquart, Windhorst, West & Halladay		10/9/1987	
K		Dorsey, Windhorst, Hannaford, Whitney & Halladay		11/5/1987	
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				7/31/1990	

**Inventor(s):** Joseph L. DeBellis

**Contact Name:** Aldo Noto (703) 288-5250

**Attorney Docket No.: 5607**

FIG. 44

S.O.F.		MDI Form 1	
Ass	Attorney	View	View By...
1	Minant International Corp. (New York, NY)		Minu S p A (Bushnago MI, IT)
2	Minato Medical Science Co., Ltd. (Osaka, JA)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
3	Minatrol Promotions and Enterprises, Ltd. (Chicago, IL)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
4	Minc Incorporated (Colorado Springs, CO)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
5	Minchom Magnetic Systems Limited (London, EN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
6	MindCenter Corporation (Palo Alto, CA)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
7	MindGames, Inc. (Pine Bluff, AR)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
8	Mine Safety Appliances Company (Pittsburgh, PA)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
9	Minebea Co., Ltd. (Nagano, JP)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
10	Minelab Electronic Industries Ltd. (Adelaide, AU)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
11	Minelli A.G. (CH)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
12	Miner Elastomer Products Corporation (Geneva, IL)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
13	Miner Enterprises, Inc. (Chicago, IL)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
14	Miner Enterprises, Inc. (Geneva, IL)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
15	Mineral Fiber Manufacturing Corporation (Coshocton, OH)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
16	Mineral Recovery Corporation (Pleasantville, NY)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
17	Mineral Research & Development Corporation (Charlotte, NC)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
18	Minerals Research Corporation (Ogden, UT)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
19	Minerac Corporation (New York, NY)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
20	Mines de Potasse d'Alsace S.A. (Mulhouse, FR)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
21	Ming Tay Hardware Ind. Co., Ltd. (TW)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
22	Minigrip, Inc. (Oranburg, NY)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
23	Minimed Technologies (Sylmar, CA)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
24	Mining Equipment Division of FMC Corporation (Fairmont, WV)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
25	Mining Technologies, Inc. (Ashland, KY)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
26	Minireef (B.V.) (Foxhol, NL)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
27	Miniscribe Corporation (Longmont, CO)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
28	Minister of Energy, Mines and Resources Canada (CA)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
29	Minister of National Defence (CA)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
30	Minister of National Defence of Her Majesty's Canadian Government (Ottawa, CA)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
31	Ministerium fuer Verkehrswesen (Berlin, DD)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
32	Minneapolis Electric Steel Casting Company (Minneapolis, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
33	Minneapolis War Memorial Blood Bank (Minneapolis, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
34	Minnesota Automation Inc. (Crosby, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
35	Minnesota Automation, Inc. (Crosby, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
36	Minnesota Micro Metal, Inc. (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
37	Minnesota Mining & Manufacturing Co. (Saint Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
38	Minnesota Mining & Manufacturing Co. (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
39	Minnesota Mining & Manufacturing Company (MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
40	Minnesota Mining & Manufacturing Company (Saint Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
41	Minnesota Mining & Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
42	Minnesota Mining & Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
43	Minnesota Mining and Manufacturing Co. (Saint Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
44	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
45	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
46	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
47	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
48	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
49	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
50	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
51	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
52	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
53	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
54	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
55	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
56	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
57	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
58	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
59	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
60	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
61	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
62	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
63	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
64	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
65	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
66	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
67	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
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69	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
70	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
71	Minnesota Mining and Manufacturing Company (St. Paul, MN)		Minolta Camera Kabushiki Kaisha (Osaka, JP)
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padding: 2px; margin-bottom: 5px;">Application Date</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Issue Date</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Primary Examiner</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Assistant Examiner</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Attorney</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Assignee</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Primary Examiner</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Didline, Jr.</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">DiPalma, Vic</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dixon Jr., W</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dixon, Harol</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dixon, Josep</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dixon, Jr.,</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dixon, Willi</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dixon, Harol</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dixon, Jr.,</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dixon, Jr.,</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Doback, B.</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Doback, Benj</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Doback, G.</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Doback, H.</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dolinar, And</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Doll, John</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Donovan, Lin</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dority Carro</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dority, Caro</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dority, Carr</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dority, Jr.</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dority, Jr.,</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dority, Jr.,</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dorner, Kenn</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dorner, Kenn</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dost, Gerald</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dote, Janis</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Doudreau, Le</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Douglas Wins</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Douglas, Win</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Downey, K.</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Downey, Kenn</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Downey, Mary</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Downey, Mary</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Draper, Gair</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Drezen, Norm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Drezin, Norm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Drodge, Jose</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Drummond Dou</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Drummond, Do</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dugan, Donov</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dugan, James</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dugga, Donov</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Duggan, Dono</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Duzan, James</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dwyer, James</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dziehczynski,</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dzierzynski,</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">View By...</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Primary Examiner</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dees, Jose</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dees, Jose G.</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dees, Jose/</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dees, Josee G.</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Dees, JoseG.</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">View By...</div>



T04280" 5955660

Title: SEARCH-ON-THE-FLY WITH MERGE FUNCTION

Inventor(s): Joseph L. DeBellis

Contact Name: Aldo Noto (703) 288-5200

Attorney Docket No.: 5607

FIG. 47

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S.O.F.	
<div>Assignee<ul style="list-style-type: none"><li>Ulan Corporation (Brooklyn, NY)</li><li>Udicks: Charles D. (Newbury Park, CA)</li><li>Ullapara Holdings Pty. Ltd. (New South Wales, AU)</li><li>Ulinic France (Paris, FR)</li><li>Ulrich Baensch (Meile, DT)</li><li>Ulrich Luboschik (DE)</li><li>Usteln Propeller AFS (NO)</li><li>Ultimage Inc. (Quebec, CA)</li><li>Ultimate Window Coverings, Inc. (Lakewood, CO)</li><li>Ultra Light Arms, Inc. (Granville, WV)</li><li>Ultra Motor, Inc. (Ogden, UT)</li><li>Ultra Plating Corporation (Green Bay, WI)</li><li>Ultra-Centrifuge Nederland N.V. (Almelo, NL)</li><li>Ultra-Mold Corporation (Willow Grove, PA)</li><li>Ultra-Precision Manufacturing, Ltd. (Birmingham, MI)</li><li>Ultra-Violet Products, Inc. (San Gabriel, CA)</li><li>Ultracentrifuge Nederland N.V. (The Hague, NL)</li><li>Ultracentrifuge Products, Inc. (Salt Lake City, UT)</li><li>Ultracent Products, Inc. (South Jordan, UT)</li><li>Ultracore, Inc. (Granville, OH)</li><li>Ultrakust Electronic GmbH (Ruhmannsfelden, DE)</li><li>Ultralife Batteries, Inc. (Newark, NY)</li><li>Ultrasonic Embroidery Machine Company (North Haven, CT)</li><li>Ultrasonic Equipment Company (Addison, IL)</li><li>Ultramatrix, Inc. (Los Angeles, CA)</li><li>Ultramed Corporation O</li><li>ULTRAMET (Pacoima, CA)</li><li>Ultrasonic Arrays, Inc. (Woodinville, WA)</li><li>Ultrasonic Energy Corporation (Riverdale, NY)</li><li>Ultrasonic Systems, Inc. (Farmingdale, NY)</li><li>Ultratec, Inc. (Madison, WI)</li><li>Ultratek International, Inc. (Concord, CA)</li><li>UltraThermics (Redmond, WA)</li><li>Ultraviolet Purification Systems (Bedford Hills, NY)</li><li>Ultraviolet Purification Systems, Inc. (Bedford Hills, NY)</li><li>Ultravision Defense and Space, Inc. (Irvine, CA)</li><li>Ultronic Systems Corporation (Moorestown, NJ)</li><li>Uly-Pak, Inc. (Carbondale, IL)</li><li>Uly-Pak, Inc. (Ulysses, KS)</li><li>Ulysses Corporation (St. George, UT)</li></ul></div>	
<div>Assignee<ul style="list-style-type: none"><li>U</li><li>U-</li><li>U</li><li>Ua</li><li>Ub</li><li>Uc</li><li>Ud</li><li>Ue</li><li>Uf</li><li>Ug</li><li>Uh</li><li>Ui</li><li>Um</li><li>Un</li><li>Uo</li><li>Up</li><li>Ur</li><li>Us</li><li>Ut</li><li>Uv</li><li>Uz</li></ul></div>	
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Title: SEARCH-ON-THE-FLY WITH MERGE FUNCTION  
Inventor(s): Joseph L. DeBellis  
Contact Name: Aldo Noto (703) 288-5200  
Attorney Docket No.: 5607

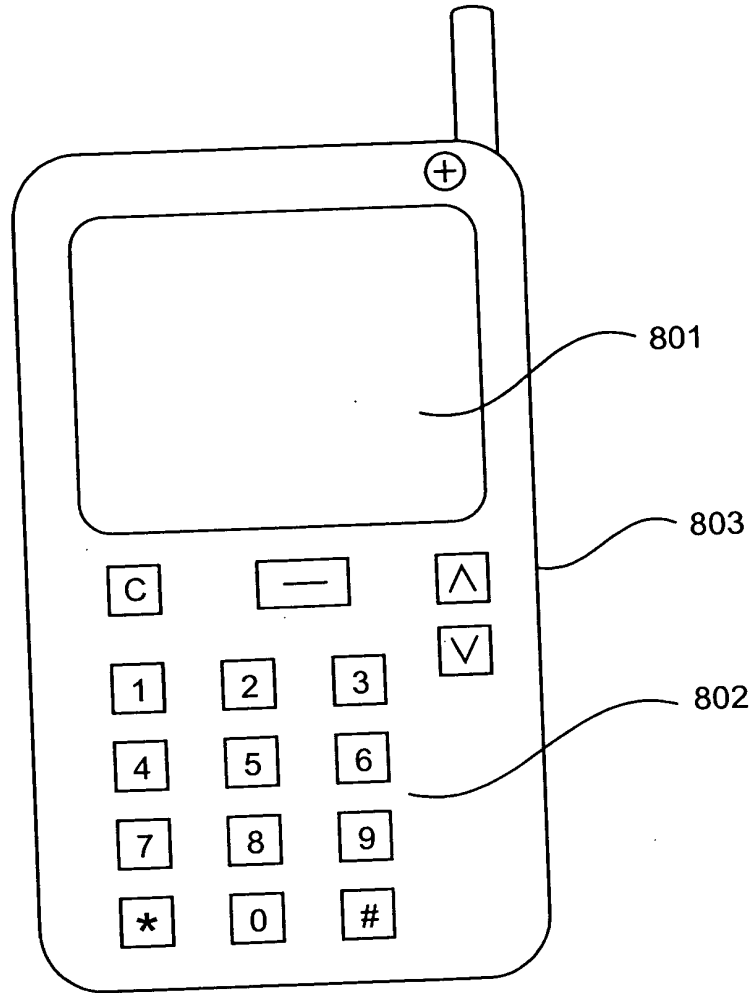
FIG. 48

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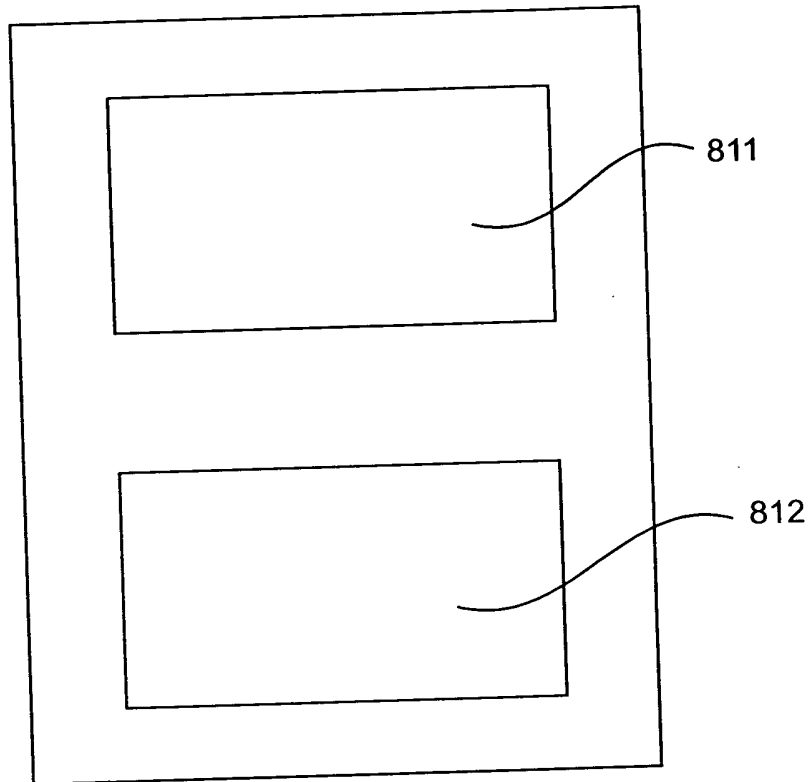
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**FIG. 50**

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**FIG. 51**

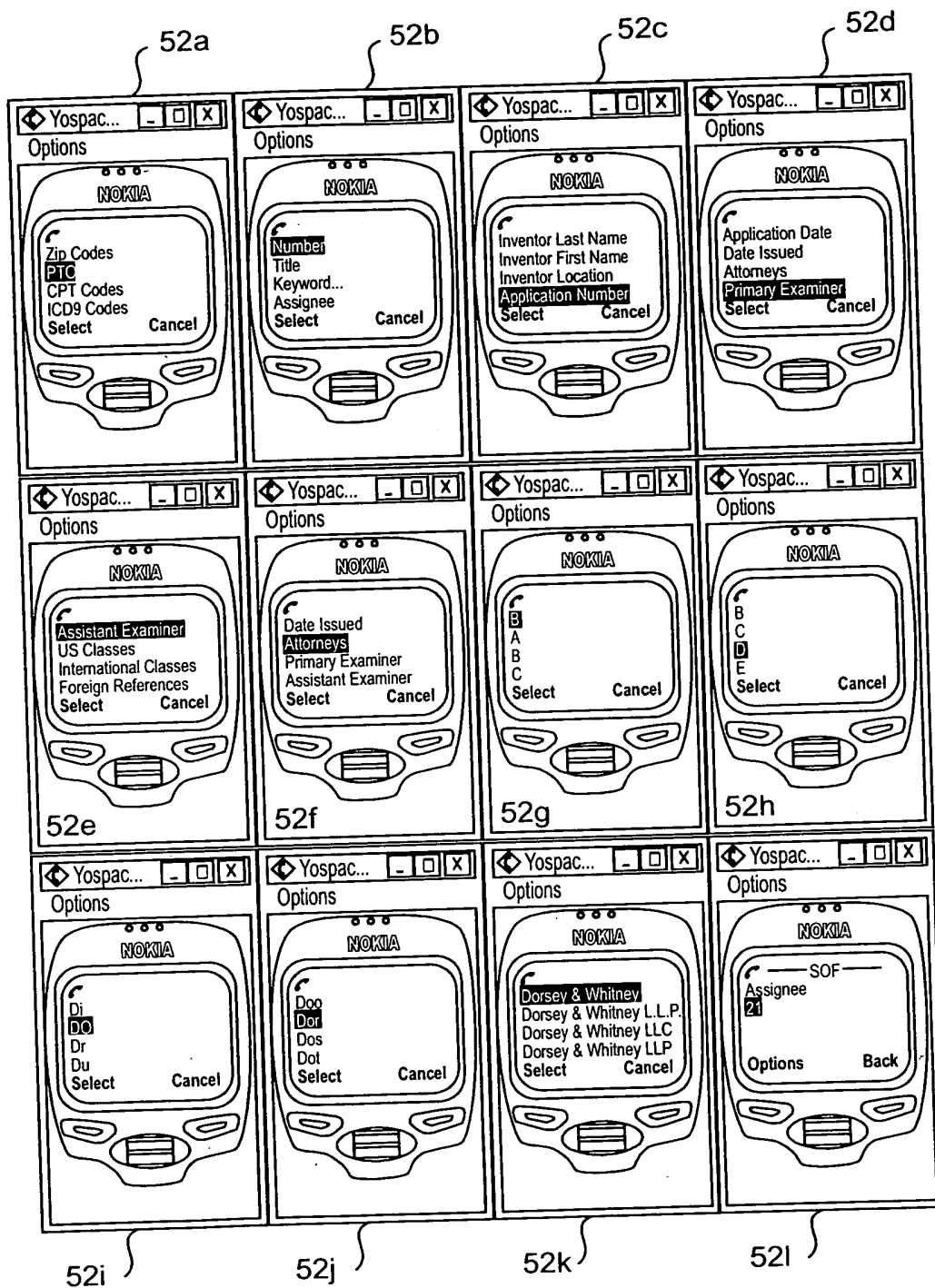


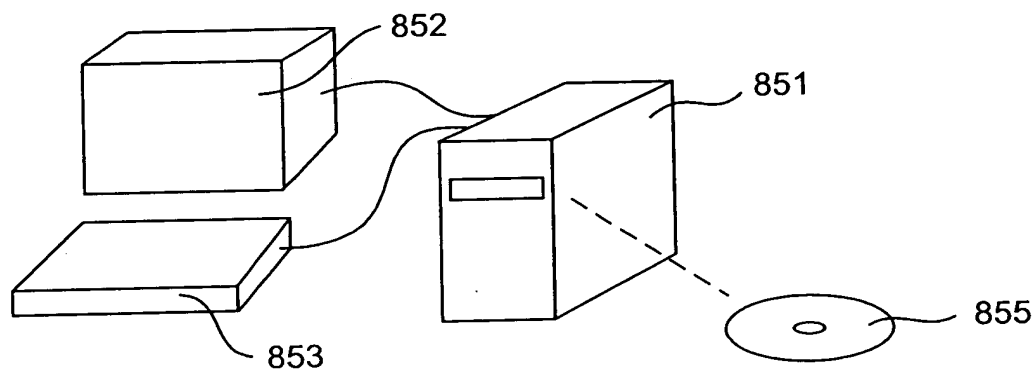
FIG. 52

**Title:** SEARCH-ON-THE-FLY WITH MERGE FUNCTION

**Inventor(s):** Joseph L. DeBellis

**Contact Name:** Aldo Noto (703) 288-5243

**Attorney Docket No.:** 5607



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**FIG. 53**